AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Description: Clock, Analog, Wall

Manufacturer: Grainger   ((510) 638-0955)

Vendor: Grainger   ((510) 638-0955)

Model: Geneva Quartz Clock - 5H495

Analog wall clock. 12" diameter with plastic case and lens. Battery operated. Automatically adjusts for daylight savings. Access to transmitted radio waves is necessary for clock to set properly.

Atta ID: 5177-043
Alt ID:
Mfr #: 5H495
Vendor #: 5H495
CAD ID: CLK0130
Item ID:

General Product Detail

Arch Sig: Yes		**Spatially Sig:** No	
Arch Code: 1 - Fixed		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: C/C	**Type:** Non-Medical	**Green:** No	

Physical Requirements

Width: 14.00 in (356 mm)	**Left:** N/A
Depth: 2.75 in (70 mm)	**Right:** N/A
Height: 14.00 in (356 mm)	**Front:** N/A
Max Weight: 2 lbs (0.9 kg)	**Back:** N/A
Mounting: Wall	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A		**Watts:** N/A	
Hz: N/A		**Amps:** N/A	
Phase: N/A		**BTU/hr:** N/A	
KVA: N/A		**Ded. Circuit:** No	
Emer. Power: No		**Plug Type:** N/A	

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Requires 1 AA battery.

Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B165	Hot Lab	Project	Draft (New)	1	Per VA document Equipment List Corrections - 23. 5177-043 Clock Analog Wall should be NEW in rooms X110, X112, X102, A156C, X110, X104, X119, X114, X103, A156A, and A156B. Currently in room X 110, X105 & X114 and marked as new. Added to rooms X112, X102, A156C, X104, X119, X103, A156A & A156B and marked as new. X110 listed twice in room number list.
Nuclear Medicine	C169	NM Physician Office	Project	Draft (New)	1	Per VA document Equipment List Corrections - 23. 5177-043 Clock Analog Wall should be NEW in rooms X110, X112, X102, A156C, X110, X104, X119, X114, X103, A156A, and A156B. Currently in room X 110, X105 & X114 and marked as new. Added to rooms X112, X102, A156C, X104, X119,

Nuclear Medicine	A156C	NM Read/Viewing	Project	Draft (New)	1	Per VA document Equipment List Corrections - 23. 5177-043 Clock Analog Wall should be NEW in rooms X110, X112, X102, A156C, X110, X104, X119, X114, X103, A156A, and A156B. Currently in room X 110, X105 & X114 and marked as new. Added to rooms X112, X102, A156C, X104, X119, X103, A156A & A156B and marked as new. X110 listed twice in room number list.
Nuclear Medicine	B131	NM Stress	Project	Draft (New)	1	Per VA document Equipment List Corrections - 23. 5177-043 Clock Analog Wall should be NEW in rooms X110, X112, X102, A156C, X110, X104, X119, X114, X103, A156A, and A156B. Currently in room X 110, X105 & X114 and marked as new. Added to rooms X112, X102, A156C, X104, X119, X103, A156A & A156B and marked as new. X110 listed twice in room number list.
Nuclear Medicine	B121	Pat Dose Room	Project	Draft (New)	1	Per VA document Equipment List Corrections - 23. 5177-043 Clock Analog Wall should be NEW in rooms X110, X112, X102, A156C, X110, X104, X119, X114, X103, A156A, and A156B. Currently in room X 110, X105 & X114 and marked as new. Added to rooms X112, X102, A156C, X104, X119, X103, A156A & A156B and marked as new. X110 listed twice in room number list.
Nuclear Medicine	B130	PET/CT Control	Project	Draft (New)	1	Per VA document Equipment List Corrections - 23. 5177-043 Clock Analog Wall should be NEW in rooms X110, X112, X102, A156C, X110, X104, X119, X114, X103, A156A, and A156B. Currently in room X 110, X105 & X114 and marked as new. Added to rooms X112, X102, A156C, X104, X119, X103, A156A & A156B and marked as new. X110 listed twice in room number list.
Nuclear Medicine	B119	PET/CT Hot Wait	Project	Draft (New)	1	Per VA document Equipment List Corrections - 23. 5177-043 Clock Analog Wall should be NEW in rooms X110, X112, X102, A156C, X110, X104, X119, X114, X103, A156A, and A156B. Currently in room X 110, X105 & X114 and marked as new. Added to rooms X112, X102, A156C, X104, X119, X103, A156A & A156B and marked as new. X110 listed twice in room number list.
Nuclear Medicine	B122	SPECT/CT Control	Project	Draft (New)	1	Per VA document Equipment List Corrections - 23. 5177-043 Clock Analog Wall should be NEW in rooms X110, X112, X102, A156C, X110, X104,

						X119, X114, X103, A156A, and A156B. Currently in room X 110, X105 & X114 and marked as new. Added to rooms X112, X102, A156C, X104, X119, X103, A156A & A156B and marked as new. X110 listed twice in room number list.
Nuclear Medicine	C168	Tech Office	Project	Draft (New)	1	Per VA document Equipment List Corrections - 23. 5177-043 Clock Analog Wall should be NEW in rooms X110, X112, X102, A156C, X110, X104, X119, X114, X103, A156A, and A156B. Currently in room X 110, X105 & X114 and marked as new. Added to rooms X112, X102, A156C, X104, X119, X103, A156A & A156B and marked as new. X110 listed twice in room number list.
Nuclear Medicine	A156A	Thyroid Uptake	Project	Draft (New)	1	Per VA document Equipment List Corrections - 23. 5177-043 Clock Analog Wall should be NEW in rooms X110, X112, X102, A156C, X110, X104, X119, X114, X103, A156A, and A156B. Currently in room X 110, X105 & X114 and marked as new. Added to rooms X112, X102, A156C, X104, X119, X103, A156A & A156B and marked as new. X110 listed twice in room number list.
Nuclear Medicine	A156B	Treadmill	Project	Draft (New)	1	Per VA document Equipment List Corrections - 23. 5177-043 Clock Analog Wall should be NEW in rooms X110, X112, X102, A156C, X110, X104, X119, X114, X103, A156A, and A156B. Currently in room X 110, X105 & X114 and marked as new. Added to rooms X112, X102, A156C, X104, X119, X103, A156A & A156B and marked as new. X110 listed twice in room number list.

Total: **11**

Clock, Quartz, Round

Quartz Clock, Analog, 12 Hour, Shape Round, Overall Dia. 14 In., Face Dia. 12 In., Depth 2-9/16 In., Power Source (1)AA Battery, Mount Wall or Surface, Features Shatter Proof Lens, Case Material Plastic, Case Color Black, Lens Material Plastic

Grainger Item #	5H495
Price (ea.)	**$**
Brand	GENEVA
Mfr. Model #	5H495
Ship Qty.	1
Sell Qty. (Will-Call)	1
Ship Weight (lbs.)	2.29
Availability	Ready to Ship
Catalog Page No.	2288

Price shown may not reflect your price. Log in or register.

Additional Info

Quartz Clocks

Atomic clocks automatically reset themselves daily by using radio signals, and they automatically adjust for Daylight Savings Time. Access to transmitted radio waves is necessary for these clocks to set properly. For best results place near windows and away from other electrical appliances. Atomic technology is not recommended in totally enclosed rooms, or in metal or concrete buildings. In these instances, DST (Daylight Savings Time) clocks are recommended instead. DST clocks reset themselves twice a year, when the time changes, eliminating the need to reset them manually.

- Batteries not included

Tech Specs

Sub-Category: Clocks
Item: Quartz Clock
Type: Analog
Clock Type: 12 Hour
Shape: Round
Overall Dia.: 14"
Face Dia.: 12"
Depth: 2-9/16"
Power Source: (1)AA Battery
Mount: Wall or Surface
Features: Shatter Proof Lens
Case Material: Plastic
Case Color: Black
Lens Material: Plastic

Notes & Restrictions

There are currently no notes or restrictions for this item.

MSDS

This item does not require a **Material Safety Data Sheet (MSDS).**

Required Accessories

Battery, AA, 1.5v, Pk8

Item #: 3VY98
Brand: DURACELL
Usually Ships: Clearance - limited quantity available
Price (ea.): $2.12

Optional Accessories

Battery, AA, 1.5v, Pk4

Item #: 3WA11
Brand: DURACELL
Usually Ships: Ready to Ship
Price (ea): $6.70

Battery, AA, 1.5v, Pk24

Item #: 5LE23
Brand: DURACELL
Usually Ships: Ready to Ship
Price (ea): $23.52

Battery, Lithium, AA Size, 1.5V, Pk4

Item #: 1LEF7
Brand: ENERGIZER
Usually Ships: Ready to Ship
Price (ea): $16.77

Rechargeable NiMH Battery, AA, PK 4

Item #: 2CUP7
Brand: RAYOVAC
Usually Ships: Clearance - limited quantity available
Price (ea): $12.83

Standard Battery, Alkaline, Size AA, PK 8

Item #: 2HYL6
Brand: DURACELL
Usually Ships: Ready to Ship
Price (ea): $14.68

Standard Battery, Alkaline, AA, PK 24

Item #: 2HYL8
Brand: DURACELL
Usually Ships: Ready to Ship
Price (ea): $34.95

Photo Battery, Alkaline, AA, PK 4

Item #: 2HYN1
Brand: DURACELL
Usually Ships: Clearance - limited quantity available
Price (ea): $3.60

Rechargeable Battery, Type AA, PK 4

Item #: 2HYP8
Brand: DURACELL
Usually Ships: Ready to Ship
Price (ea): $19.24

Pre-Charged Rechargeable Battery, AA, PK 4

Item #: 2HYR2
Brand: DURACELL
Usually Ships: Ready to Ship
Price (ea): $19.24

Battery, Lithium, Size AA, PK 8

Item #: 2LBJ6
Brand: ENERGIZER
Usually Ships: Ready to Ship
Price (ea): $30.95

Battery, AA, 1.5v, Pk8

Item #: 3WA37
Brand: RAYOVAC
Usually Ships: Clearance - limited quantity available
Price (ea): $4.68

Battery, AA, 1.2v, Pk 4

Item #: 5HB63
Brand: RAYOVAC
Usually Ships: Ready to Ship
Price (ea): $21.90

Battery, Alkaline, AA, 1.5V, PK 8

Item #: 4TAE5
Brand: GRAINGER APPROVED VENDOR
Usually Ships: Ready to Ship
Price (ea): $6.55

Battery, Alkaline, AA, 1.5V, PK 10

Item #: 5HXN5
Brand: DURACELL
Usually Ships: Clearance - limited quantity available
Price (ea): $10.07

Battery, Alkaline, AA, 1.5V, PK 20

Item #: 5HXN7
Brand: DURACELL
Usually Ships: Clearance - limited quantity available
Price (ea): $7.90

Alternate Products

Clock, Quartz, Round

Item #: 5H496
Brand: GENEVA
Usually Ships: Ready to Ship
Price (ea): $39.75

Clock, Quartz, Round

Item #: 6NN65
Brand: GRAINGER APPROVED VENDOR
Usually Ships: Ready to Ship
Price (ea): $42.50

Repair Parts

A Repair Part may be available for this item. Visit our Repair Parts Center or contact your local branch for more information.

AECOM

VA Columbia MO - Nuclear Medicine

Specification Coversheet

Description: Copier, Counter Top, Multifunction

Manufacturer: Xerox Corp.	((203) 968-3000)	
Vendor: Xerox Corp.	((203) 968-3000)	
Model: WorkCentre 4250X		

Mfr #: WC4250X

Vendor #: WC4250X

CAD ID: COP0349

Multifunction copier. Printer / copier / scanner / Embedded Fax and LAN Fax. 45 ppm black and white printing, color scanning. 600 sheet paper capacity. USB, 10/100 Base-TX. 80 GB hard drive standard. Duplex automatic document feeder standard

Item ID:

General Product Detail

Arch Sig: Yes		**Spatially Sig:** No	
Arch Code: 6 - IT/Computers		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/V	**Type:** Non-Medical	**Green:** No	

Physical Requirements

Width: 24.50 in (622 mm)	**Left:** N/A	
Depth: 19.00 in (483 mm)	**Right:** N/A	
Height: 25.50 in (648 mm)	**Front:** N/A	
Max Weight: 98 lbs (44.5 kg)	**Back:** N/A	
Mounting: Counter/Cart/Table/Pole	**Top:** N/A	
	Bottom: N/A	

Electrical Requirements

Volts: 120	**Watts:** 794	
Hz: 60	**Amps:** 6.6	
Phase: Single	**BTU/hr:** N/A	
KVA:	**Ded. Circuit:** No	
Emer. Power: No	**Plug Type:** Type B (NEMA 5-15)	

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No	
Water - Hot: No	**Drain:** No	
Water - Treated: No	**Steam:** No	
Vent: No	**Vacuum - Dental:** No	
Tech Connect: Yes	**Vacuum - Medical:** No	

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B174	Admin/Control	Project	Draft (New)	1	per 123114 meeting notes -add copier 5225-073 over the 7599-009... Per 020414 meeting notes clarifications - Multifunction machine to have fax, scan and print capabilities
					Total: 1	

WorkCentre® 4250/4260

Black-and-White Multifunction Printer

WorkCentre 4250 Copier only
A powerful copier with automatic two-sided copy and optional faxing capabilities

WorkCentre 4250S/4260S
A multifunction device with automatic two-sided copy/print/scan, 600-sheet input capacity and Color Scan to Email, Scan to Network and Scan to USB memory drive

WorkCentre 4250X/4260X
All the features of the WorkCentre 4260S plus Embedded Fax and LAN Fax

WorkCentre 4250XF
This configuration adds three 500-sheet paper trays and a Finisher

WorkCentre 4260XF
This configuration adds a 500-sheet paper tray, 2000-sheet High Capacity Feeder and Finisher

	WorkCentre 4250	WorkCentre 4250S/4260S	WorkCentre 4250X/4260X	WorkCentre 4250XF	WorkCentre 4260XF
Output Speed					
Single Sided	Up to 45/55 ppm 8.5 x 11 in. Up to 43/53 ppm A4 (210 x 297 mm) Up to 39/40 ppm 8.5 x 14 in.				
Automatic Two-Sided	Up to 25/36 ppm 8.5 x 11 in. Up to 24/35 ppm A4 (210 x 297 mm) Up to 22/35 ppm 8.5 x 14 in.				
Paper Handling - Input					
Duplex Automatic Document Feeder					
Capacity[1]	100 sheets				
Sizes	Custom Sizes: 2.75 x 6 in. to 8.5 x 14 in. / 70 x 152 mm to 216 x 356 mm				
Weights	12.5 lb. bond to 28 lb. bond (50 to 120 gsm)				
Bypass Tray					
Capacity[1]	100 sheets				
Sizes	Custom Sizes: 3.9 x 5.8 in. to 8.5 x 14 in. (99 x 147 mm to 216 x 356 mm)				
Weights	16 lb. bond to 53 lb. bond (60 to 200 gsm)				
Media Types	Plain paper Envelopes Labels Transparencies Card Stock Recycled Punched Pre-printed Heavyweight Archive				

[1] Paper capacities are based on 20 lb/75 gsm stock; capacities will vary with different weight stocks.

Detailed Specifications   1

WorkCentre® 4250/4260

Tray 1 (Standard)	
Capacity[1]	500 sheets
Sizes	Custom Sizes: 3.9 x 5.8 in. to 8.5 x 14 in. / 99 x 147 mm to 216 x 356 mm
Weights	16 lb. bond to 28 lb. bond (60 to 105 gsm)
Media Types	Plain paper Envelopes Labels Transparencies Card Stock Recycled Punched Pre-printed Archive

Tray 2 (Standard on 4250XF and 4260XF)	
Capacity[1]	500 sheets
Sizes	Custom Sizes: 3.9 x 5.8 in. to 8.5 x 14 in. / 99 x 147 mm to 216 x 356 mm
Weights	16 lb. bond to 28 lb. bond (60 to 105 gsm)
Media Types	Plain paper Envelopes Labels Transparencies Card Stock Recycled Punched Pre-printed Archive

Trays 3 and 4 (Standard on 4250XF)	
Capacity[1]	2 Trays at 500 sheets each
Sizes	Custom Sizes: 3.9 x 5.8 in. to 8.5 x 14 in. / 99 x 147 mm to 216 x 356 mm
Weights	16 lb. bond to 28 lb. bond (60 to 105 gsm)
Media Types	Plain paper Envelopes Labels Transparencies Card Stock Recycled Punched Pre-printed Archive

High Capacity Feeder (Standard on 4260XF)	
Capacity[1]	2000 sheets
Sizes	Custom Sizes: 5.5 x 8.5 in. to 8.5 x 14 in. / 148 x 210 mm to 216 x 356 mm
Weights	16 lb. bond to 28 lb. bond (60 to 105 gsm)

[1] Paper capacities are based on 20 lb/75 gsm stock; capacities will vary with different weight stocks.

Media Types	Plain paper Card Stock Recycled Punched Pre-printed Archive
Paper Handling - Output	
Standard Output	500 sheets
Finishing	Offline Convenience Stapler: 50-sheet, single position (standard on 4260XF)
Print (available with all configurations except Copier only model)	
First-Page-Out-Time	4250: As fast as 8 seconds 4260: As fast as 6 seconds
Print Resolution	600 x 600 dpi (up to 1200 x 1200 enhanced image quality)
Memory (Std/max)	256 MB / 512 MB
Processor	500 MHz
Hard Disk Drive	80 GB (Standard)
Language Support	PostScript® 3™ compatibility PCL® 5e emulation PCL® 6 emulation
Connectivity	USB 2.0, 10/100/1000 Base-TX Ethernet Direct connect via USB (4250 Copier only)
Printing Features[2]	Custom page size Watermark Secure Print Sample Set Delayed Print Cover Selection Paper Selection by Attribute Toner Saver N-Up Image Rotation Saved Settings Booklet Creation Fit to New Paper Size Collation Print to / From Hard Drive Print from USB Memory Drive[2]
Print Drivers	Microsoft® Windows® 2003 Server/XP/XP Professional/Vista Mac OS® X version 10.3 and above Sun Microsystems Solaris™ 9/10 Linux Red Hat® ES Fedora™ Core 4 SUSE IBM AIX® 5 HP-UX 11.0/11i Novell NetWare® (IP only) SCO® Xerox Global Print Driver Xerox Mobil Express Driver
Font Capability	136 PostScript® fonts 80 PCL® fonts

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[2] Print from USB memory drive enables print features on 4250 Copier only model.

WorkCentre® 4250/4260

Copy	
Document Scanner	Duplex Automatic Document Feeder with 100-sheet capacity
Sides (input:output)	1:1, 1:2, 2:2 and 2:1
Quantity	1 to 999
Resolution	600 x 600 dpi
Concurrency	Concurrent scanning and printing
First-Copy-Out-Time	4250: As fast as 7 seconds 4260: As fast as 5 seconds
Copy Features	Collation Reduce/Enlarge 25 to 400 % (from Platen and ADF) Book Copying Mixed-size Originals Edge Erase Image Shift Booklet Creation Covers Lighten/Darken Transparency Separators Multi-up ID Card Copy Copy to Hard Drive Background Suppression Poster

Fax	
Embedded Fax[3], LAN Fax (Optional on 4250 Copier only and 4250S/4260S – 1 line), Network Server Fax Enablement (Optional)	
Fax Speed	33.6 Kbps
Memory	80 GB (32 MB dedicated fax memory)
Resolution	Up to 600 x 600 dpi (superfine) resolution
Compression	MH, MR, MMR, JPEG and JBIG
Fax Features	Color Fax Send Address Book Polling Mailboxes Forward to Fax / Email Secure Fax

Scan[4]	
Capability	Black-and-white and color scanning
Concurrency	Scan while the system is printing copy or network print jobs, or while it is transferring scan to network or fax jobs
Input Speed	Black-and-white: Scan up to 55 ipm (8.5 x 11) Black-and-white Text and Photo: Scan up to 55 ipm (8.5 x 11) Color: Scan up to 25 ipm (8.5 x 11)

Resolution	600 x 600 dpi 400 x 400 dpi 300 x 300 dpi (color maximum) 200 x 200 dpi 100 x 100 dpi 72 x 72 dpi
Maximum Scan Area	8.58 x 15.75 in. / 218 x 400 mm
Network Protocol	FTP HTTP HTTPS SMB
File Formats	TIFF Multipage TIFF JPEG PDF
Supported Scan Destinations	Scan to Email Network Scanning Network Scan to TWAIN/WIA applications Scan to USB Memory Drive[4]
Scan to Email	• Direct document email from device • Manual or directory Exchange/Notes/LDAP address searching • "From" field auto-populated from LDAP (only when authentication is used)
Network Scanning	Uses templates to send scanned images to predefined locations
Scan to USB	Scans can be loaded directly onto a user's portable USB storage device
Scanning Solutions	
Scan to PC Desktop® Personal Edition (1 Seat)	A desktop and server-based offering that provides document imaging, archiving, editing and organization tools • ScanSoft PaperPort – image viewing and file management software • ScanSoft OmniPage (for desktop/client installation) – OCR and file format conversion software • Image Retriever – provides fully automated retrieval of scanned images direct from a scan enabled Xerox WorkCentre to individual desktops
Accounting[5]	
Xerox Standard Accounting	
Tracking	Copy, Print, Fax and Scan usage
Accounting	Up to 500 User accounts Up to 250 General accounts Up to 250 Group accounts
Features	Enable/disable via the web UI or the GUI in tools, admin can manage the feature remotely via the web UI, Data can be exported via a CSV file, user required to enter XSA ID into the print driver when submitting a print job, similar to secure print.
Network Accounting Enablement (Optional)	Enhanced Network Accounting with up to the minute data on how the device is being used; comprehensive management and enterprise scale tracking and reporting of device usage of copy, print, scan and server fax. Various options available through Xerox Alliance Partner solutions. For details visit www.xerox.com
Accounting Control	Xerox Standard Accounting Network Accounting (with third party integration) Supports Foreign Device Interface

[4] Scan to USB memory drive enables scan features on 4250 Copier only model.

[5] Not available on 4250 Copier only model.

WorkCentre® 4250/4260

Security		
Security Features	**WorkCentre 4250 Copier only** Image overwrite security Secure Print (enabled with Print from USB Memory Drive) Secure Fax (enabled when Fax Kit is added)	**WorkCentre 4250S/4260S, 4250X/4260X, 4250XF/4260XF** Image overwrite security Network Authentication 802.1x SNMPv3 Audit log HTTPS (SSL) Secure Print Secure Fax (enabled when Fax Kit is added) IPSec Secure LDAP IPv6 Xerox Secure Access[6]

Device Management

Xerox CentreWare® Web
- A web-based server application for network administrators that permits web browser-based device management from any workstation, whether running Windows or UNIX or any other operating system   - Works with any SNMP-managed printer from any manufacturer   - Provides help with device discovery and installations, health checks and troubleshooting, and device upgrades, as well as basic accounting and asset management

Xerox CentreWare® Internet Services - Integrated Device Web Page	
Device Status	Web server embedded - Tray status/contents - Consumables status
Print Queue Viewing	Complete job print queue management—hold, release, promote and delete
Job Submission	Print-ready files (PS, PCL, TIFF, PDF) Output feature selection
Device Administration	Allows simple, remote installation setting of configuration options and management of the device
Browsers	Windows® XP, 2000: Netscape Navigator®, Firefox® Microsoft® Internet Explorer Macintosh® 9.x/OS X: Netscape Navigator® 6.x, Apple® Safari™, Firefox® Linux: Netscape® 6.x

Device Specifications

Duty Cycle
4250: Up to 200,000 pages per month 4260: Up to 250,000 pages per month

Recommended Monthly Print Volume
4250: Up to 20,000 pages per month 4260: Up to 30,000 pages per month

Rated Engine Life
Up to 1,500,000 pages

WorkCentre® 4250/4260

Power Consumption	
Printing	794 watts
Standby	111 watts
Power save	20 watts
Warm up (from power save)	First Print: As fast as 32 seconds User Interface ready and programmable: 2 seconds
Warm up (from power on)	First Print: 73 seconds (maximum) User Interface ready and programmable: 54 seconds (maximum)
Operating Temperature Range	50° to 90° F (10° to 32° C)
Storage Temperature Range	-4° to 104° F (20° to 40° C)
Maximum Humidity Range	20 % to 80 %

Dimensions and Weights	Width	Depth	Height	Weight
4250 Copier/ 4250S/4260S	24.5 in. / 622 mm	19 in. / 483 mm	25.5 in. / 648 mm	97 lbs / 44 kg
4250X/4260X	24.5 in. / 622 mm	19 in. / 483 mm	25.5 in. / 648 mm	98 lbs / 44.5 kg
4250XF/4260XF	39.5 in. / 1003 mm	26 in. / 660 mm	46 in. / 1168 mm	205 lbs / 93 kg

Package Dimensions	Width	Depth	Height	Weight
4250 Copier/ 4250S/4260S	32.1 in. / 815 mm	23.7 in. / 602 mm	27.6 in. / 701 mm	113.8 lbs / 51.6 kg
4250X/4260X	32.1 in. / 815 mm	23.7 in. / 602 mm	27.6 in. / 701 mm	114.4 lbs / 51.9 kg
4250XF/4260XF	26 in. / 660 mm	34.5 in. / 876 mm	80 in. / 2,032 mm	278.8 lbs / 126.5 kg

Certifications	
	FCC Part 15, Class A, FCC Part 68, Listed UL 60950-1/CSA 60950-1-03, CE Mark applicable to Directives 2006/95/EC, 2004/108/EC and 1999/5/ EC, Section 508 ADA, Cerner Tested and Certified

What Comes in the Box	
	WorkCentre 4250/4260 Starter Toner cartridge (12,000 print capacity)[7] Drum cartridge (80,000 yield)[8] Software and documentation CD, User manual, Quick Installation guide and Warranty booklet Power cord Fax phone cord (X and XF configurations)

[7] Declared Yield in accordance with ISO/IEC 19752. Yield will vary based on image, area coverage and media used.

[8] Yield will vary depending on job run length, media size and orientation.

WorkCentre® 4250/4260

Supplies and Options	Description		Order Number
	Toner Cartridge – approx. 25,000 pages[7]		106R01409
	Drum Cartridge – approx. 80,000 pages[8]		113R00755
	Maintenance Kit – 200,000 pages[8]		115R00063
	Network Accounting Enablement		098S04928
	Network Fax Server Enablement		098S04931
	Fax Kit (Parallel)		097N01685
	Fax Kit (Serial)		097N01686
	256 MB Memory Upgrade		098N02200
	500-Sheet Paper Tray		097N01524
	Two Tray Stand (Trays 3 and 4)		097S03677
	2000-Sheet High Capacity Feeder		097N01684
	Finisher		097N01715
	Staple Cartridge		008R12941
Country of Origin			
	Manufactured in Korea		

[7] Declared Yield in accordance with ISO/IEC 19752. Yield will vary based on image, area coverage and media used.
[8] Yield will vary depending on job run length, media size and orientation.

Supplies Recycling Program

Consumables for the WorkCentre 4250/4260 are part of the Xerox Green World Alliance Supplies Recycling Program. For more information, please visit the Green World Alliance website at www.xerox.com/gwa.

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet
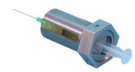
Description: Shield, Lead, Syringe

Manufacturer: Biodex Medical Systems, Inc.   ((800) 224-6339)

Vendor: Biodex Medical Systems, Inc.   ((800) 224-6339)

Model: Gaard Lock PET 3cc

3cc PET syringe shield with flange locking design. 0.34" tungsten shielding and lead glass window. Reduces hand exposure from syringes containing 511 keV radionuclides FDG F-18.

Atta ID: 5284-005
Alt ID:
Mfr #: 007-716
Vendor #: 007-716
CAD ID: SHD0049
Item ID:

General Product Detail

Arch Sig: No		**Spatially Sig:** No	
Arch Code: 3 - Movable, Non-Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: C/C	**Type:** Medical	**Green:** No	

Physical Requirements

Width: 1.00 in (25 mm)	**Left:** N/A	
Depth: 1.00 in (25 mm)	**Right:** N/A	
Height: 3.00 in (76 mm)	**Front:** N/A	
Max Weight: 2 lbs (0.9 kg)	**Back:** N/A	
Mounting: Counter/Cart/Table/Pole	**Top:** N/A	
	Bottom: N/A	

Electrical Requirements

Volts: N/A	**Watts:** N/A	
Hz: N/A	**Amps:** N/A	
Phase: N/A	**BTU/hr:** N/A	
KVA: N/A	**Ded. Circuit:** No	
Emer. Power: No	**Plug Type:** N/A	

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No	
Water - Hot: No	**Drain:** No	
Water - Treated: No	**Steam:** No	
Vent: No	**Vacuum - Dental:** No	
Tech Connect: No	**Vacuum - Medical:** No	

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B165	Hot Lab	Project	Draft (New)	4	
				Total:	**4**	

GAARD LOCK™
PET SYRINGE SHIELD

Available with or without high-density lead glass

Twist to lock syringe in place with one hand

- *Unique flange locking design reduces exposure with faster handling*
- *Constructed of .34" thick (9 mm) tungsten, attenuates FDG F-18 by 88%*
- *Available with or without a high density lead glass window*
- *Easily sanitized with alcohol wipes*

The Gaard Lock™ PET Syringe Shield reduces hand exposure from syringes containing 511 keV radionuclides FDG F-18. The barrel of the shield is constructed of .34" thick (9 mm) tungsten that attenuates FDG F-18 by 88%.

The syringe shield is offered with or without a high density (5.6) flush mounted lead glass window that provides protection and visibility. A white reflective surface on the shield interior improves viewing of the syringe's markings and fluid content.

The syringe shield features a unique flanged locking mechanism that speeds the loading and unloading of the syringe, further reducing hand exposure.

Gaard Lock PET Syringe Shields accommodate the standard sized 3 cc, 5 cc and 10 cc syringes. The Gaard Lock PET Syringe Shield fits the Manual Dose Injector.

SPECIFICATIONS:
Shielding: .34" tungsten (9mm)
Lead glass: 5.6 density

007-711 & 007-716 Gaard Lock Syringe Shield, 3 cc
Dimensions: 2.9" l (74 mm)
Weight: 1.7 lb (.77 kg)

007-712 & 007-717 Gaard Lock Syringe Shield, 5 cc
Dimensions: 3" l (76 mm)
Weight: 2 lb (.91 kg)

007-713 & 007-718 Gaard Lock Syringe Shield, 10 cc
Dimensions: 3.6" l (91 mm)
Weight: 3 lb (1.4 kg)

Gaard Lock™ PET Syringe Shields with lead glass window:
007-716 Syringe Shield, 3 cc
007-717 Syringe Shield, 5 cc
007-718 Syringe Shield, 10 cc

Gaard Lock™ PET Syringe Shields without lead glass window:
007-711 Syringe Shield, 3 cc
007-712 Syringe Shield, 5 cc
007-713 Syringe Shield, 10 cc
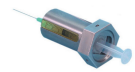
Replacement Glass:
007-974 Glass, Replacement
For Pro-Tec PET and Gaard Lock PET Syringe Shields 007-973, 007-975, 007-980, 007-716, 007-717 and 007-718

To order, call Biodex toll free...
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Int'l 631-924-9000 • www.biodex.com

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID: 5284-006

Description: Shield, Lead, Syringe

Alt ID:

Manufacturer: Biodex Medical Systems, Inc.   ((800) 224-6339)

Mfr #: 007-717

Vendor: Biodex Medical Systems, Inc.   ((800) 224-6339)

Vendor #: 007-717

Model: Gaard-Lock PET 5cc

CAD ID: SHD0050

5cc PET syringe shield with flange locking design. 0.34" tungsten shielding and lead glass window. Reduces hand exposure from syringes containing 511 keV radionuclides FDG F-18.

Item ID:

General Product Detail

Arch Sig: No		**Spatially Sig:** No	
Arch Code: 3 - Movable, Non-Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: C/C	**Type:** Medical	**Green:** No	

Physical Requirements

Width: 1.00 in (25 mm)	**Left:** N/A	
Depth: 1.00 in (25 mm)	**Right:** N/A	
Height: 3.00 in (76 mm)	**Front:** N/A	
Max Weight: 2 lbs (0.9 kg)	**Back:** N/A	
Mounting: Counter/Cart/Table/Pole	**Top:** N/A	
	Bottom: N/A	

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B165	Hot Lab	Project	Draft (New)	4	
				Total:	**4**	

GAARD LOCK™
PET SYRINGE SHIELD

Available with or without high-density lead glass

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- *Available with or without a high density lead glass window*
- *Easily sanitized with alcohol wipes*

The Gaard Lock™ PET Syringe Shield reduces hand exposure from syringes containing 511 keV radionuclides FDG F-18. The barrel of the shield is constructed of .34" thick (9 mm) tungsten that attenuates FDG F-18 by 88%.

The syringe shield is offered with or without a high density (5.6) flush mounted lead glass window that provides protection and visibility. A white reflective surface on the shield interior improves viewing of the syringe's markings and fluid content.

The syringe shield features a unique flanged locking mechanism that speeds the loading and unloading of the syringe, further reducing hand exposure.

Gaard Lock PET Syringe Shields accommodate the standard sized 3 cc, 5 cc and 10 cc syringes. The Gaard Lock PET Syringe Shield fits the Manual Dose Injector.

SPECIFICATIONS:
Shielding: .34" tungsten (9mm)
Lead glass: 5.6 density

007-711 & 007-716 Gaard Lock Syringe Shield, 3 cc
Dimensions: 2.9" l (74 mm)
Weight: 1.7 lb (.77 kg)

007-712 & 007-717 Gaard Lock Syringe Shield, 5 cc
Dimensions: 3" l (76 mm)
Weight: 2 lb (.91 kg)

007-713 & 007-718 Gaard Lock Syringe Shield, 10 cc
Dimensions: 3.6" l (91 mm)
Weight: 3 lb (1.4 kg)

Gaard Lock™ PET Syringe Shields with lead glass window:
007-716 Syringe Shield, 3 cc
007-717 Syringe Shield, 5 cc
007-718 Syringe Shield, 10 cc

Gaard Lock™ PET Syringe Shields without lead glass window:
007-711 Syringe Shield, 3 cc
007-712 Syringe Shield, 5 cc
007-713 Syringe Shield, 10 cc

Replacement Glass:
007-974 Glass, Replacement
For Pro-Tec PET and Gaard Lock PET Syringe Shields 007-973, 007-975, 007-980, 007-716, 007-717 and 007-718

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AECOM

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID: 5383-052
Alt ID:

Description: Chair, Office, Task, w/Arms

Manufacturer: Pedigo Products   ((800) 822-3501)
Vendor: Pedigo Products   ((800) 822-3501)
Model: Ergo T-580

Mfr #: T-580-COLOR
Vendor #: T-580-COLOR
CAD ID: CHO0099
Item ID:

Task chair with adjustable arm rests. 18" x 18.5" contoured cushioned seat. Features pneumatic height adjustment (17.5" to 23.25"), dual wheel casters, 5-star base, 300 lbs. weight capacity rating, integrated lumbar support, and independent backrest/seat pan height tilt controls. Latex and PVC-free. Upholstery and plastic components meet California TB-117 and TB-133 flammability standards. Made in USA.

General Product Detail

Arch Sig: No		**Spatially Sig:** No	
Arch Code: 5 - Furniture		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Non-Medical	**Green:** No	

Physical Requirements

Width: 25.00 in (635 mm)	**Left:** N/A
Depth: 25.00 in (635 mm)	**Right:** N/A
Height: 45.50 in (1156 mm)	**Front:** N/A
Max Weight: 38 lbs (17.2 kg)	**Back:** N/A
Mounting: Floor-Mobile	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	G197	Admin	Project	Draft (New)	1	Per notes - 2 chairsPer Sarah H email 040115 - There should only be 1 office chair [5383-052]; 1 waste can; 1 workstation [7843-001]
Nuclear Medicine	G197B	Admin Office	Project	Draft (New)	1	per notes - 3 chair (1 office + 2 visitor)
Nuclear Medicine	B174	Admin/Control	Project	Draft (New)	1	Per notes - 2 office chairs
Nuclear Medicine	G194	Library	Existing (Reuse)	Draft (Existing)	1	Per Sarah H email 040115 - 5383-052 was not listed on the detail report (existing desk chair)
Nuclear Medicine	C169	NM Physician Office	Project	Draft (New)	1	per notes - task chair
Nuclear Medicine	A156C	NM Read/Viewing	Project	Draft (New)	3	
Nuclear Medicine	B164	Nurse	Project	Draft (New)	1	
Nuclear Medicine	G197A	Office	Project	Draft (New)	1	Per note - (3) chairs - (1 office arm + 2 visitors) (new)

| Nuclear Medicine | B130 | PET/CT Control | Project | Draft (New) | 2 | per note - 2 chairs - new |
| Nuclear Medicine | B122 | SPECT/CT Control | Project | Draft (New) | 4 | per note - 4 chairs |

| | | | | **Total:** | **16** | |

ergo task chair

weight capacity rating of 300 lbs.

Pedigo's ergonomically designed task chairs feature pneumatic height adjustment, dual wheel casters, 5-star base, integrated lumbar support, and independent backrest/seat pan height tilt controls. PVC and latex free.

⬤ T-580

- 18" x 18½" contoured cushioned seat
- Pneumatic height adjustment of 17½" to 23¼"
- Easy rolling 2" dual wheel casters
- 25" diameter footprint
- Adjustable backrest
- Adjustable arm rests

⬤ T-581

- 18" x 18½" contoured cushioned seat
- Pneumatic height adjustment of 17½" to 23¼"
- Easy rolling 2" dual wheel casters
- 25" diameter footprint
- Adjustable backrest

⬤ T-582

- 18" x 18½" contoured cushioned seat
- Pneumatic height adjustment of 17½" to 23¼"
- Easy rolling 2" dual wheel casters
- 23" diameter footprint
- Adjustable backrest

specs

3" vertical travel

2½" vertical travel

45½"

39¾"

21½" max. (arm rest ID)

17" min.

15"

6½"

19"

from floor

23" Footprint (T-582)

25" Footprint (T-580 and T-581)

50mm dual blackwheel casters

22°

18"

23¼" high

12°

17½" low

from floor

from floor

Approx. 2¼" cushion height

AECOM

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID: 5473-001

Description: Bin, Shredding, Secure

Alt ID:

Manufacturer: Shred-it, Inc.   (905-829-2794)

Mfr #: Standard

Vendor: Shred-it, Inc.   (905-829-2794)

Vendor #: Standard

Model: Standard Front Load Console

CAD ID: BIN0019

Front loading console for containment of discarded, sensitive documents. Beveled slot and internal security plate, security lock. Provided free-of-charge with Shred-It service contract. Holds 39.54 gallons of paper. Also available as top loading.

Item ID:

General Product Detail

Arch Sig: No		**Spatially Sig:** No	
Arch Code: 3 - Movable, Non-Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/V	**Type:** Non-Medical	**Green:** No	

Physical Requirements

Width: 20.25 in (514 mm)	**Left:** N/A
Depth: 19.50 in (495 mm)	**Right:** N/A
Height: 36.00 in (914 mm)	**Front:** N/A
Max Weight: 45 lbs (20.4 kg)	**Back:** N/A
Mounting: Floor	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B174	Admin/Control	Project	Draft (New)	1	
				Total:	**1**	

Security Consoles

Shred-it

Making sure it's secure.™

Shred-it's ultra-strong security consoles give you the efficiency, durability and flexibility you expect.

→ Paper securely held in durable polyester bag for efficient and secure retrieval

Higher capacity than most of the consoles in the industry — saving you money

→ Wide variety of lock systems for added security and assurance

→ Custom finish options available (Cherry, Mahogany, Light Oak, Birch) to coordinate with your office environment

→ Specifically designed with wide feed slots that can take up to 400 pieces of paper at a time and cannot be retrieved

Made with recycled wood materials compliant with the Environmentally Preferred Product Certification (EPP), ensuring better office air quality.

→ Multi-media consoles feature multiple feed slot design for various applications (paper, CDs, hard drives, videotapes, pill bottles, etc.)

Top Load Console (pictured)
36" H x 20.25" W x 19.5" D
Holds 39.54 gallons of paper.

See reverse for more Consoles and Bins.

800 69-Shred | 800.697.4733
or visit us at shredit.com

NAID-CERTIFIED INDUSTRY EXPERTS
All Shred-it locations in North America have received NAID Certification for mobile document destruction.

Security Consoles and Bins

Shred-it
Making sure it's secure.™

Available in a variety of styles to meet your application and security needs.

Front Load Console
36" H x 20.25" W x 19.5" D
Front-loading beveled slot and internal security plate ensure documents cannot be removed. Holds 39.54 gallons of paper.
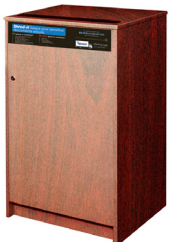
Mini Console
26" H x 20.25" W x 19.5" D
Designed to fit under a workstation where space is at a premium. Holds 36.01 gallons of paper. (Each Mini Console will hold up to 250 pieces of paper.)

Double Console
62" H x 20.25" W x 19.5" D
Stacks two high. Designed to fit in tight spaces. Holds 81.98 gallons of paper.

Wood-Finish Top Load Console
36" H x 20.25" W x 19.5" D
Top-loading beveled slot and internal security plate ensure documents cannot be removed. Holds 39.54 gallons of paper.

- Mahogany   - Light Oak
- Birch   - Cherry

Multi-Media Console
35" H x 10" W x 19.5" D
Designed for use of media items such as DVDs. Features multiple feed slot. Holds 21.1 gallons of paper.

Shred-it's high volume security bins are extremely durable and easy to maneuver.

→ Top-loading, durable plastic containers for high paper volumes

→ Ideal for higher volume areas such as mailrooms, copy rooms or warehouses

→ Security slot to ensure paper cannot be retrieved from inside

→ Wheeled and well-balanced for easy handling

→ Hasp design for padlock security

2-Bag Bin
36" H x 40" W x 20" D
Holds 60 gallons of paper.

4-Bag Bin
35" H x 40" W x 27.5" D
Holds 90 gallons of paper.

---

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or visit us at shredit.com

NAID-CERTIFIED INDUSTRY EXPERTS
All Shred-it locations in North America have received NAID Certification for mobile document destruction.

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID: 5779-011
Alt ID:

Description: Stand, Equipment, Monitor

Manufacturer: GCX Corporation ((707) 773-1100)
Mfr #: ME-0030-63

Vendor: GCX Corporation ((707) 773-1100)
Vendor #: ME-0030-63

Model: ME-0030-63 (for GE Dash 2000/3000/4000/5000)
CAD ID: EQS0014

Item ID:

Roll Stand for GE Dash 2000/3000/4000/5000 monitors. Includes base, casters, post assembly, 6" utility basket with cord loops, handle and counterweight.

General Product Detail

Arch Sig: No	**Spatially Sig:** No
Arch Code: 3 - Movable, Non-Elect	**ADA:** No
Custom Code: Unassigned	**Antimicrobial:** No
Furnish Install: O/O **Type:** Medical	**Green:** No

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Physical Requirements

Width: 25.00 in (635 mm)	**Left:** N/A
Depth: 25.00 in (635 mm)	**Right:** N/A
Height: 40.00 in (1016 mm)	**Front:** N/A
Max Weight: 20 lbs (9.1 kg)	**Back:** N/A
Mounting: Floor-Mobile	**Top:** N/A
	Bottom: N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B131	NM Stress	Existing (Reuse)	Draft (Existing)	1	per note - Reuseper 123114 meeting notes - Physiologic monitor 4075-067 and stand 5779-011 - indicate these are VA furnieshed and installed items. Currently, they share one unit between the existing rooms. VA to verify if this will continue to be the case. Awaiting VA decision011915 amendment to 123114 meeting notes - VA - One unit will be shared between camera rooms. Provide connections in rooms to enable this to "float". SECond monitor to be located in Chemical Stress Room. Both monitors are existing.
Nuclear Medicine	B129	PET/CT	Existing (Reuse)	Draft (Existing)	1	Per notes - pg 21-22 monitor stand, monitorper 123114 meeting notes - Physiologic monitor 4075-067 and stand 5779-011 - indicate these are VA furnieshed and installed items. Currently, they share one

unit between the existing rooms. VA to verify if this will continue to be the case. Awaiting VA decision011915 amendment to 123114 meeting notes - VA - One unit will be shared between camera rooms. Provide connections in rooms to enable this to "float". SECond monitor to be located in Chemical Stress Room. Both monitors are existing.

Total: **2**

GCX
INSTRUMENT MOUNTING SYSTEMS

Installation Guide

Roll Stand Mounting Kit for:

GE Dash 2000/3000/4000/*Eagle 3000/*Tram-rac

Datex-Ohmeda Cardiocap/5, S/5 FM, *S/5 Light Monitor,

*S/5 Compact Anesthesia Monitor or *S/5 Compact Critical Care Monitor

GEHC P/N: 900276-011

*   Approximate dimensions, assembled: 25" dia. x 40"H

⚠ **WARNING**: USE OF THIS STAND FOR INSTRUMENTS OTHER THAN THOSE DESCRIBED IN THIS DOCUMENT MAY RESULT IN INJURY DUE TO TIPPING OF THE ROLL STAND. THE CUSTOMER SHOULD VERIFY THE STABILITY OF ANY DEVIATION FROM THE CONFIGURATIONS SHOWN.

Parts Reference

The parts list below includes the parts and hardware that will be used in this installation procedure (see photos for parts; hardware not shown). See parts table on page 2 for mounting adapters required but not included in this kit.

Item #	Description	Qty
1	Roll Stand Post, 38"	1
2	Roll Stand Base - 25" diameter	1
3	5/16-18 x 1" Hex Head Cap Screw (HHCS)	1
4	5/16 Flat Washer	1
5	5/16 Split Lock Washer	1
6	Utility Basket	1
7	Basket Clips	2
8	#8-32 x 1-1/2" Pan Head Machine Screw (PHMS)	2
9	#8-32 Hex Nut	2
10	Mounting Plate Assembly	1
11	#10-32 x 5/8" Nylon Screw	2
12	Handle	1
13	#10-32 x 9/16" PHMS	2
14	5/32" Hex Wrench	1
15	2.5mm Hex Wrench	1
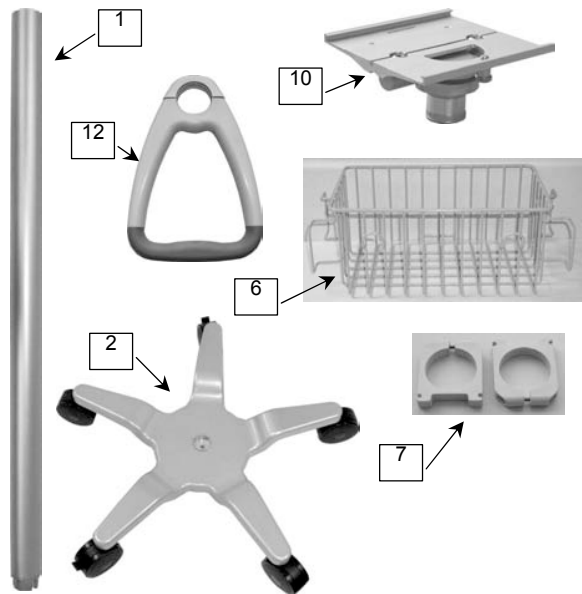
Tools Required: Phillips screwdriver, 5/32" [4mm] and 2.5mm hex wrenches (provided), 1/2" [13mm] wrench.

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

AECOM

Atta ID: 5857-043
Alt ID:

Description: Cart, Supply, Enclosed

Manufacturer: InterMetro Industries Corporation ((570) 825-2741)

Vendor: InterMetro Industries Corporation ((570) 825-2741)

Model: Starsys Double Wide SXRD76CM3

Mfr #: SXRD76CM3
Vendor #: SXRD76CM3
CAD ID: SPC0218
Item ID:

Tall, double wide supply cart with 4 wire shelves and non-locking doors. Microban antimicrobial protection.

General Product Detail

Arch Sig: No		**Spatially Sig:** No	
Arch Code: 3 - Movable, Non-Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/C	**Type:** Medical	**Green:** No	

Physical Requirements

Width: 42.50 in (1080 mm)	**Left:** N/A
Depth: 28.00 in (711 mm)	**Right:** N/A
Height: 78.50 in (1994 mm)	**Front:** N/A
Max Weight: 250 lbs (113.4 kg)	**Back:** N/A
Mounting: Floor-Mobile	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A		**Watts:** N/A	
Hz: N/A		**Amps:** N/A	
Phase: N/A		**BTU/hr:** N/A	
KVA: N/A		**Ded. Circuit:** No	
Emer. Power: No		**Plug Type:** N/A	

Utility and Technology Requirements

Water - Cold: No		**Gasses:** No	
Water - Hot: No		**Drain:** No	
Water - Treated: No		**Steam:** No	
Vent: No		**Vacuum - Dental:** No	
Tech Connect: No		**Vacuum - Medical:** No	

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B118B	Supply Alcove	Existing (Reuse)	Draft (Existing)	1	
				Total:	**1**	

General Supply

SXRD76CMHD1

SXRD76CMHD1 Includes:
Double-Wide Tall Mobile Shell with quikSLOT Inserts
(3) Double-wide qwikSLOT Chrome Wire Shelves (Behind upper door set)
Center-Closing 225° Solid Non-Locking Upper Door Set
Mid-Level Double-Wide Drawer Top Shelf (Non-locking)
(2) 3" (76mm) Double-Wide Heavy-Duty Stainless Steel Drawers
(2) 6" (152mm) Double-Wide Heavy-Duty Stainless Steel Drawers
(1) 9" (229mm) Double-Wide Heavy-Duty Stainless Steel Drawer
Taupe Drawer & Door Pulls
Outer Panels: Molded HDPE (Hi-Density Polyethylene)
Interior Upper Dimensions: 36"H (915mm) x 38"W (966mm) x 22"D (559mm)
Overall Dimensions: 78.3"H (1990mm) x 42.5"W (1080mm) x 27.9"D (709mm)

SXRD76CM3

SXRD76CM3 includes:
Double-Wide Tall Mobile Shell with quikSLOT Inserts
(4) Double-wide qwikSLOT Chrome Wire Shelves (Behind upper door set)
Center-Closing 270° Solid Non-Locking Tall Door Set
Taupe Drawer Door Pulls
Outer Panels: Molded HDPE (Hi-Density Polyethylene)
Interior Dimensions: 66"H (1677mm) x 38"W (966mm) x 22"D (559mm)
Overall Dimensions: 78.3"H (1990mm) x 42.5"W (1080mm) x 27.9"D (709mm)

SXRD83MGSTD

SXRD83MGSTD includes:
Double-Wide Tall Mobile Shell with quikSLOT Inserts & Full-Height Pull-Down
Locking Tambour Door (Keylock\2 keys)
(4) Double-Wide Fixed Chrome Wire qwikSLOT Shelves
Outer Panels: Molded HDPE (Hi-Density Polyethylene)
Interior Dimensions: 66"H (1677mm) x 38"W (966mm) x 23"D (584mm)
Overall Dimensions: 82.5"H (2096mm) x 42.5"W (1080mm) x 27.9"D (709mm)

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

AECOM

Description: Cart, Procedure, Resuscitation

Manufacturer: Blue Bell Bio-Medical ((419) 238-4442)

Vendor: Blue Bell Bio-Medical ((419) 238-4442)

Model: BAC-27 Crash (Breakaway Lock)

Resuscitation cart with 5 drawers. (2) 3", (2) 6", (1) 9" drawers, breakaway lock, removable ABS top, high-mobility caster set and wrap-around bumper with caster footprint extender set. Accessories include double equipment shelf, double fiberoptic scope cabinet, steering handle, tank bracket for "E" size cylinder, 4-outlet power strip, (2) utility containers, and transfer tray with dividers for 3" drawer. Select cart body and drawer color(s). Additional accessories or drawer organizers may be added (sold separately).

General Product Detail

Arch Sig:	No	**Spatially Sig:**	No
Arch Code:	3 - Movable, Non-Elect	**ADA:**	No
Custom Code:	Unassigned	**Antimicrobial:**	No
Furnish Install:	O/O **Type:** Medical	**Green:**	No

Physical Requirements

Width:	36.50 in (927 mm)	**Left:**	N/A
Depth:	26.00 in (660 mm)	**Right:**	N/A
Height:	48.00 in (1219 mm)	**Front:**	N/A
Max Weight:	150 lbs (68.0 kg)	**Back:**	N/A
Mounting:	Floor-Mobile	**Top:**	N/A
		Bottom:	N/A

Electrical Requirements

Volts:	N/A	**Watts:**	N/A
Hz:	N/A	**Amps:**	N/A
Phase:	N/A	**BTU/hr:**	N/A
KVA:	N/A	**Ded. Circuit:**	No
Emer. Power:	No	**Plug Type:**	N/A

Utility and Technology Requirements

Water - Cold:	No	**Gasses:**	No
Water - Hot:	No	**Drain:**	No
Water - Treated:	No	**Steam:**	No
Vent:	No	**Vacuum - Dental:**	No
Tech Connect:	No	**Vacuum - Medical:**	No

Structural Requirements

Seismic:	No	**Pre-approval:**

Product and Project Item Notes

Specification:
Dimensions reflect cart with package accessories.

Electrical requirements for 4 outlet power strip. Amp draw depends on unit(s) plugged in.

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B118D	Alcove (Crash Cart)	Existing (Reuse)	Draft (Existing)	1	Per VA Document Equipment List Corrections - 9. 5859-155 Cart Procedure Resuscitation should be changed from new to EXISTING in rooms X117D and X117A.
Nuclear Medicine	B118A	Crash Cart Alcove	Existing (Reuse)	Draft (Existing)	1	Per VA Document Equipment List Corrections - 9. 5859-155 Cart Procedure Resuscitation should be changed from new to EXISTING in rooms X117D and X117A.
				Total:	**2**	

Pre-configured Workstation 08S27-112 includes:

- BAC-27 Cart with Breakaway Lock
- (2) 3" Drawers
- (2) 6" Drawers
- (1) 9" Drawer

Note: You can select from any of the 16 Blue Bell colors at no additional charge.

- High Mobility Casters
- Standard Wrap-Around Bumper
- Removable ABS Plastic top

- CFE-1 Caster Footprint Extender Set
- DFSN-1 Defibrillator Shelf
- USRN-2 Universal Side Rail/Handle
- BBBN-2 Acrylic Cardiac Backboard with Envelope
- IVPN-5 Direct Mount I.V. Pole
- THC-3 Crash Cart Transfer Tray

Dimensions	Width	Depth	Height
Cart w/package accessories	36-1/2"	26"	48"
Cart w/stabilizing bumper (w/o accessories)	32"	20-1/2"	41-1/2"
Cabinet Housing Only	27"	18"	35-1/2"
Inside Drawer Dimensions	22-7/8"	16-1/4"	
Weight with package accessories: 150 pounds			

Choose from any of Blue Bell's 16 color choices with no change in price.
You can even have multi-tone carts and drawers to match your protocol and/or décor.

Vanilla 13, Lilac 17, Citrus 21, Midnight 25, Winter Grey 24, Raspberry 18, Rose 22, Olive Green 26

Custom Colors

Blue Bell Blue 11, Wedgewood Blue 15, Sunburst Yellow 19, Garnet 23, Classic Red 12, Robin's Egg Blue 16, Kiwi 20, Rainforest Green 14

Blue Bell products are built to strict manufacturing specifications and incorporate high quality and ease-of-use design features. Each Blue Bell cart includes these standard features:

- High-Mobility Casters for ease of movement.
- Full-extension Ball Bearing Drawer Slides. There are two sets of slides on all 9" and 12" drawers to accommodate the heavier weight these drawers may carry – a feature found only on Blue Bell carts.
- Label inserts on drawer pulls to easily identify contents.
- A removable ABS Plastic Top that is easy to keep clean.
- Reinforced back, top, and bottom for optimum strength.
- Dual side panels for greater load capacity.
- Pre-drilled and pre-threaded holes for easy installation of side rails and accessories.
- Powder Coat Paint Finish for durability and easy cleaning.

BLUE BELL BIO-MEDICAL™

www.BlueBellCarts.com   1-800-258-3235

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Description: Table, Interiors, Dining

Manufacturer: To Be Determined	(000-000-0000)	
Vendor: To Be Determined	(000-000-0000)	
Model: TBD		

Atta ID: 5871-001
Alt ID:
Mfr #:
Vendor #:
CAD ID: TBI0070
Item ID:

General Product Detail

Arch Sig: No	**Spatially Sig:** No
Arch Code: 5 - Furniture	**ADA:** No
Custom Code: Unassigned	**Antimicrobial:** No
Furnish Install: O/C **Type:** Non-Medical	**Green:** No

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Physical Requirements

Width: *	**Left:** N/A
Depth: *	**Right:** N/A
Height: *	**Front:** N/A
Max Weight: *	**Back:** N/A
Mounting: Floor	**Top:** N/A
	Bottom: N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	C168	Tech Office	Existing (Reuse)	Draft (Existing)	1	Added per email from Sarah H - existing table (3' x 4"0 and (4) chairs
				Total:	**1**	

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID: 5873-031

Description: Board, White, Dry Erase, Magnetic

Manufacturer: Peter Pepper Products, Inc   ((800) 496-0204)

Vendor: Peter Pepper Products, Inc   ((800) 496-0204)

Model: MiniMint 48' x 36' (MM-LMB)

Alt ID:

Mfr #: MM-LMB 4836

Vendor #: MM-LMB 4836

CAD ID: BRD0125

Item ID:

Dry Erase board 48"W x 36"H. Features non-porous, non-absorbent acid resistant porcelain surface, aluminum frame and accepts all magnetic accessories. Includes (1) 46" Aluminum Pen Rail, (4) Dry-Erase Marking Pens, (1) Eraser & Wall mounting cleat/bracket & hardware. Price based on Natural Anodised Aluminum Frame. Option: White 2" x 2" Grid Graphics.

General Product Detail

Arch Sig: Yes		**Spatially Sig:** No	
Arch Code: 1 - Fixed		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: C/C	**Type:** Non-Medical	**Green:** No	

Physical Requirements

Width: 48.00 in (1219 mm)	**Left:** N/A	
Depth: 1.00 in (25 mm)	**Right:** N/A	
Height: 36.00 in (914 mm)	**Front:** N/A	
Max Weight: 46 lbs (20.9 kg)	**Back:** N/A	
Mounting: Wall	**Top:** N/A	
	Bottom: N/A	

Electrical Requirements

Volts: N/A	**Watts:** N/A	
Hz: N/A	**Amps:** N/A	
Phase: N/A	**BTU/hr:** N/A	
KVA: N/A	**Ded. Circuit:** No	
Emer. Power: No	**Plug Type:** N/A	

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No	
Water - Hot: No	**Drain:** No	
Water - Treated: No	**Steam:** No	
Vent: No	**Vacuum - Dental:** No	
Tech Connect: No	**Vacuum - Medical:** No	

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	A156C	NM Read/Viewing	Project	Draft (New)	1	per 123114 meeting notes - 6081-027 should be magnetic, No corkboards are allowed. model udpated to be non-cork, magneticPer Sarah H email 040115 - Be sure all white boards are listed as magnetic
Nuclear Medicine	A156C	NM Read/Viewing	Project	Draft (New)	2	Per Sarah H email 040115 - Be sure all white boards are listed as magnetic
Nuclear Medicine	B131	NM Stress	Project	Draft (New)	1	per notes - magnetic model updatedPer Sarah H email 040115 - Be sure all white boards are listed as magnetic
Nuclear Medicine	B164	Nurse	Project	Draft (New)	1	Per 123114 meeting notes - Dry erase whiteboard needs to be magneticPer Sarah H email 040115 - Be sure all white boards are listed as magnetic
Nuclear Medicine	B119	PET/CT Hot Wait	Project	Draft (New)	1	per 123114 meeting ntoes - Magnetic dry-erase board

						changed model to magneticPer Sarah H email 040115 - Be sure all white boards are listed as magnetic
Nuclear Medicine	B122	SPECT/CT Control	Project	Draft (New)	1	per note - magnetic Per Sarah H email 040115 - Be sure all white boards are listed as magnetic
Nuclear Medicine	C168	Tech Office	Project	Draft (New)	1	Added per email from Sarah HPer Sarah H email 040115 - Be sure all white boards are listed as magnetic

	Total:	**8**

Model MMLMB48361
48" x 36" MiniMint® Writing Surface

Specifications:

SIZE: 48" w x 36" h x 1" d

WRITING SURFACE COMPOSITION: White porcelain enamel writing surface fused to 28 gauge steel. Writing surface accepts magnetic accessories.

FRAME: 13/16" Mini-Aluminum Quarter Round.

FRAME FINISH:
RA: Natural Anodized Aluminum.
RC: PPP Color - Upcharge.

INCLUDED: Full-Length Aluminum Pen Rail; (4) Dry-Erase Marking Pens; (1) Eraser

MOUNTING HARDWARE: Wall mounting cleat/bracket and hardware included.

OPTIONS:
5788 Expo White Board Cleaner, 8 oz.
5790 Tools: 12 Dry Erase Markers, Eraser, Board Cleaner.

CUSTOM APPLICATIONS: Custom silk screen graphics are available on writing surface. Please submit your requirements.

PDQ: Select variations of this product are available to ship in 10 business days via the Pepper Delivers Quicker program.

ESTIMATED SHIP WEIGHT: 46 lbs.

FOB: COMPTON, CA.

AECOM

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID:	5873-053
Alt ID:	

Description: Board, White, Dry Erase, Magnetic

Manufacturer: Peter Pepper Products, Inc   ((800) 496-0204)

Vendor: Peter Pepper Products, Inc   ((800) 496-0204)

Model: MiniMint 72'W x 48' (MM-LMB 7248)

Mfr #:	MM-LMB 7248
Vendor #:	MM-LMB 7248
CAD ID:	BRD0284
Item ID:	

Dry Erase board. 72"W x 48"H. White porcelain enamel writing surface fused to 28 gauge steel. Writing surface accepts magnetic accessories. Natural Anodized Aluminum frame. Includes Full-Length Aluminum Pen Rail; (4) Dry-Erase Marking Pens; (1) Eraser. Custom silk screen graphics are available. Price based on Natural Anodised Aluminum Frame.

General Product Detail

Arch Sig:	Yes	**Spatially Sig:**	No
Arch Code:	1 - Fixed	**ADA:**	No
Custom Code:	Unassigned	**Antimicrobial:**	No
Furnish Install:	C/C **Type:** Non-Medical	**Green:**	No

Physical Requirements

Width:	72.00 in (1829 mm)	**Left:**	N/A
Depth:	1.00 in (25 mm)	**Right:**	N/A
Height:	48.00 in (1219 mm)	**Front:**	N/A
Max Weight:	106 lbs (48.1 kg)	**Back:**	N/A
Mounting:	Wall	**Top:**	N/A
		Bottom:	N/A

Electrical Requirements

Volts:	N/A	**Watts:**	N/A
Hz:	N/A	**Amps:**	N/A
Phase:	N/A	**BTU/hr:**	N/A
KVA:	N/A	**Ded. Circuit:**	No
Emer. Power:	No	**Plug Type:**	N/A

Utility and Technology Requirements

Water - Cold:	No	**Gasses:**	No
Water - Hot:	No	**Drain:**	No
Water - Treated:	No	**Steam:**	No
Vent:	No	**Vacuum - Dental:**	No
Tech Connect:	No	**Vacuum - Medical:**	No

Structural Requirements

Seismic:	Yes	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B118	Corridor	Project	Draft (New)	1	Per notes X117 - add new 4 x 6 dry erase bd / magnetic, DeloresPer Sarah H email 040115 - Be sure all white boards are listed as magnetic

Total: 1

Model MMLMB72481
72" x 48" MiniMint® Writing Surface

Specifications:

SIZE: 72" w x 48" h x 0.812" d

WRITING SURFACE COMPOSITION: White porcelain enamel writing surface fused to 28 gauge steel. Writing surface accepts magnetic accessories.

FRAME: 13/16" Mini-Aluminum Quarter Round.

FRAME FINISH:
RA: Natural Anodized Aluminum.
RC: PPP Color - Upcharge.

INCLUDED: Full-Length Aluminum Pen Rail; (4) Dry-Erase Marking Pens; (1) Eraser

MOUNTING HARDWARE: Wall mounting cleat/bracket and hardware included.

OPTIONS:
5788 Expo White Board Cleaner, 8 oz.
5790 Tools: 12 Dry Erase Markers, Eraser, Board Cleaner.

CUSTOM APPLICATIONS: Custom silk screen graphics are available on writing surface. Please submit your requirements.

PDQ: Select variations of this product are available to ship in 10 business days via the Pepper Delivers Quicker program.

ESTIMATED SHIP WEIGHT: 106 lbs.

FOB: COMPTON, CA.

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Description: Table, Interiors, Conference

Manufacturer:	National Business Furniture	((414) 615-3536)
Vendor:	National Business Furniture	((414) 615-3536)
Model:	NBF Signature Contemporary 42' Round 40852	

Conference Table. 42"W x 42"D x 29-1/2"H. Features round top with cross base, wood-grain finish, all-wood construction with laminate top, 3mm PVC to protect edges against bumps and knocks. Available in 4 colors. Assembly required.

Atta ID: 5878-013
Alt ID:
Mfr #: 40852
Vendor #: 40852
CAD ID: TBI0557
Item ID:

General Product Detail

Arch Sig:	No	**Spatially Sig:**	No
Arch Code:	5 - Furniture	**ADA:**	No
Custom Code:	Unassigned	**Antimicrobial:**	No
Furnish Install:	O/O **Type:** Non-Medical	**Green:**	No

Physical Requirements

Width:	42.00 in (1067 mm)	**Left:**	N/A
Depth:	42.00 in (1067 mm)	**Right:**	N/A
Height:	29.50 in (749 mm)	**Front:**	N/A
Max Weight:	97 lbs (44.0 kg)	**Back:**	N/A
Mounting:	Floor	**Top:**	N/A
		Bottom:	N/A

Electrical Requirements

Volts:	N/A	**Watts:**	N/A
Hz:	N/A	**Amps:**	N/A
Phase:	N/A	**BTU/hr:**	N/A
KVA:	N/A	**Ded. Circuit:**	No
Emer. Power:	No	**Plug Type:**	N/A

Utility and Technology Requirements

Water - Cold:	No	**Gasses:**	No
Water - Hot:	No	**Drain:**	No
Water - Treated:	No	**Steam:**	No
Vent:	No	**Vacuum - Dental:**	No
Tech Connect:	No	**Vacuum - Medical:**	No

Structural Requirements

Seismic:	No	**Pre-approval:**	

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	G194	Library	Project	Draft (New)	1	Per notes - round table + chairs
				Total:	**1**	

NBF Signature Series Contemporary Collection

42" Round Conference Table with Cross Base
Item No: 40852

- LaminateTop
- All Wood Construction
- 3 colors
- 3mm PVC is used to protect edges against bumps and knocks
- Wood Grain Finish
- Assembly required.

Dimensions: 42"W x 42"D x 29-1/2"H
Weight: 97 lbs.
Lifetime Guarantee

Product Description

On a tight budget? Our Signature Series collection of conference room furniture is just what you are looking for. Clean, contemporary styling and rich laminate finishes give your office or conference room the professional look you seek.

The centerpiece is this finely crafted 42" Round Conference Table with Cross Base. Features sturdy all-wood construction with laminate top and legs.

Imagine the possibilities with this fine conference table. Call today to create your new office environment.

Assembly required.

color options:
American Mahogany, American Cherry, American Dark Cherry.

American Espresso Mocha

nbf *Signature Series*

LIFETIME GUARANTEE

Sales: **800-558-1010**
Service: **800-626-6060**
Fax: **800-329-9349**

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

AECOM

Description: Table, Side

Manufacturer: Stryker Medical   ((269) 329-2100)

Vendor: Stryker Medical   ((269) 329-2100)

Model: Tru-Fit Single Top

Mfr #: 3150-000-100

Vendor #: 3150-000-100

CAD ID: TOB0013

Item ID:

Single-top overbed table with 17.5in x 31in top surface. Low profile, U-shaped base, height adjustable. Safe working load 25 lbs. Specify laminate, edge/base colors when ordering.

General Product Detail

Arch Sig: No		**Spatially Sig:** No	
Arch Code: 3 - Movable, Non-Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Medical	**Green:** No	

Physical Requirements

Width: 32.00 in (813 mm)	**Left:** N/A	
Depth: 21.25 in (540 mm)	**Right:** N/A	
Height: 43.75 in (1111 mm)	**Front:** N/A	
Max Weight: 43 lbs (19.5 kg)	**Back:** N/A	
Mounting: Floor-Mobile	**Top:** N/A	
	Bottom: N/A	

Electrical Requirements

Volts: N/A	**Watts:** N/A	
Hz: N/A	**Amps:** N/A	
Phase: N/A	**BTU/hr:** N/A	
KVA: N/A	**Ded. Circuit:** No	
Emer. Power: No	**Plug Type:** N/A	

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No	
Water - Hot: No	**Drain:** No	
Water - Treated: No	**Steam:** No	
Vent: No	**Vacuum - Dental:** No	
Tech Connect: No	**Vacuum - Medical:** No	

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B121	Pat Dose Room	Project	Draft (New)	2	Per Sarah H 040115 email - 2 side tables were not shown on the drawing or called out on the detail report
				Total:	**2**	

stryker®

Tru-Fit®
Overbed Tables

A True Fit For
Every Patient Room

Split-top Overbed Table

The sleek design of the award-winning Tru-Fit Overbed Table easily slides under beds, stretchers and mobile recliners. Available in several laminate and base colors, The Stryker single-top and split-top overbed tables coordinate with any room décor.

Single-top with Vanity

Single-top without Vanity

Split-top with Storage Compartment
(available on split-top or single-top)

Low-profile, U-shaped base provides maximum versatility

Infinite adjustments between low and high heights

High-impact polystyrene cover protects the base and conceals the caster

Dura-Edge™ protects the table and contains spills

Available with vanity compartment and acrylic mirror

Storage compartment option provides additional storage space

stryker®

3800 E. Centre Ave.
Portage, MI 49002 U.S.A.
t: 269 329 2100 **f:** 866 795 2233
toll free: 800 327 0770

www.stryker.com

Tru-Fit Overbed Tables

Split-Top Overbed Table

Split-Top with Vanity

Single-Top without Vanity

Split-Top with Storage Compartment

Standard Features

- 1.46-inch (3.7 cm) diameter twin swivel casters
- Durable high-impact polystyrene base cover
- Height adjustment to 43.75 inches (111 cm) (single-top only)
- Height adjustment to 45.5 inches (116 cm) (split-top only)
- Infinite adjustments between low and high heights
- Anodized aluminum column
- Tabletop with Dura-Edge
- Secondary laminate top (split-top only)
- Storage vanity with acrylic mirror

Optional Features

- Choose from seven standard laminates and four standard base/Dura-Edge colors
- Storage compartment

Specifications	Single-Top without Vanity	Single-Top with Vanity	Split-Top with Vanity
Part Number	3150-000-100	3150-000-200	3150-000-300
Height			
High	43.75" (111.1 cm)	43.75" (111.1 cm)	45.5" (115.6 cm)
Low	27" (68.6 cm)	27" (68.6 cm)	29" (73.7 cm)
Weight Capacity*	75 lb. (34 kg)	75 lb. (34 kg)	75 lb. (34 kg)
Weight	43 lb. (20 kg)	50 lb. (23 kg)	61 lb. (28 kg)
Overall Table Top			
Length	31" (79 cm)	31" (79 cm)	31" (79 cm)
Width	17.5" (44.5 cm)	17.5" (44.5 cm)	17.5" (44.5 cm)
Base			
Height	2.2" (5.6 cm)	2.2" (5.6 cm)	2.2" (5.6 cm)
Length	32" (81 cm)	32" (81 cm)	32" (81 cm)
Width	21.25" (54 cm)	21.25" (54 cm)	21.25" (54 cm)
Caster Diameter	1.46" (3.7 cm)	1.46" (3.7 cm)	1.46" (3.7 cm)

Storage Compartment
Part Number 3151-050-001

Weight Capacity	40 lb. (18 kg)	40 lb. (18 kg)	41 lb. (19 kg)

Total Unit with Storage Compartment

Weight	68 lb. (31 kg)	75 lb. (43 kg)	86 lb. (39 kg)
Length	42.75" (109 cm)	42.75" (109 cm)	42.75" (109 cm)
Width	17.5" (44.5 cm)	17.5" (44.5 cm)	17.5" (44.5 cm)

Warranty

One year parts and labor

*25 lb. safe working load
Stryker reserves the right to change specifications without notice.
Furniture is manufactured exclusively for Stryker Medical.*

Part Numbers

3150-000-100	Tru-Fit Single Top
3150-000-000/3150-000-200	Tru-Fit Single Top w/ Vanity
3150-000-000/3150-000-500	Tru-Fit Single Top w/ Vanity & Storage
3150-000-000/3150-000-300	Tru-Fit Split Top w/ Vanity
3150-000-000/3151-000-600	Tru-Fit Split Top w/ Storage
3150-000-000/3150-000-400	Tru-Fit Single Top w/o Vanity & w/ Storage

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Description: Table, Imaging, Ultrasound

Manufacturer: Medical Positioning, Inc.   ((816) 474-1555)

Vendor: Medical Positioning, Inc.   ((816) 474-1555)

Model: UltraScan Plus 8089

Ultrasound table with removable manual foot drop section and liquids tray. Electrically adjustable height range 24.5" - 34.5". Electric Fowler positioning 0-70 deg. Stirrups, electrical hand controller, storage tray, liquids tray, pelvic cutout. 1000 lbs. load capacity, 500 lb. lift capacity.

General Product Detail

Arch Sig:	Yes	**Spatially Sig:**	No
Arch Code:	2 - Movable, Elect	**ADA:**	No
Custom Code:	Unassigned	**Antimicrobial:**	No
Furnish Install: O/C	**Type:** Medical	**Green:**	No

Physical Requirements

Width:	28.00 in (711 mm)	**Left:**	N/A
Depth:	72.00 in (1829 mm)	**Right:**	N/A
Height:	34.50 in (876 mm)	**Front:**	N/A
Max Weight:	290 lbs (131.5 kg)	**Back:**	N/A
Mounting:	Floor-Mobile	**Top:**	N/A
		Bottom:	N/A

Electrical Requirements

Volts:	120	**Watts:**	192
Hz:	60	**Amps:**	1.6
Phase:	Single	**BTU/hr:**	N/A
KVA:		**Ded. Circuit:**	No
Emer. Power:	No	**Plug Type:**	Type B (NEMA 5-15)

Utility and Technology Requirements

Water - Cold:	No	**Gasses:**	No
Water - Hot:	No	**Drain:**	No
Water - Treated:	No	**Steam:**	No
Vent:	No	**Vacuum - Dental:**	No
Tech Connect:	No	**Vacuum - Medical:**	No

Structural Requirements

Seismic:	No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	A156B	Treadmill	Existing (Reuse)	Draft (Existing)	1	123114 Meeting notes - Delete 3616-018 and replace with the existing bed from existing treadmill room 010515 - Request for existing bed mfg/model 011915 - revision to 123114 meeting notes - Existing bed is Medical Positioning Inc. Max 30-130345A1710A-000.
				Total:	**1**	

UltraScan™ Table Specifications
All models with removable foot drop section and liquids tray

Model

8089 - No Drop Section
8189 - Single Drop Section
8289 - Dual Drop Sections

8091, 8191, 8291
Includes 25⁰ Reverse
Trendelenburg

8094, 8194, 8294
Includes Trendelenburg ±15⁰

Model 8294 shown

GENERAL & VASCULAR ULTRASOUND

- Ideal platform for all ultrasound procedures including cardiac echo
- Electrically Height adjustable 24.5" - 34.5"
- Electric Fowler positioning (0 - 70°)
- 15° Trendelenburg/ **15° Reverse Trendelenburg** - electrically adjustable
  (models 8094, 8194, and 8294 only)
- 15° Trendelenburg/ **25° Reverse Trendelenburg** - electrically adjustable
  (models 8091, 8191, 8291 only)
- Footboard (models 8091, 8191, 8291 only)
- Foot Drop Section - Manually adjustable/removable
- Self-Storing adjustable stirrups
- 24 V DC Hand controller - electrically isolated
- Paper holder/cutter
- Pelvic cutout
- Liquids tray
- Storage Tray

ECHO
- Proven faster image acquisition
- Anatomically/Ergonomically correct imaging area
- 14" x 8.5" Exam drop section (Models 8189, 8289, 8191, 8192 8194 & 8294 only)
- 14" x 11.5" Right sided sonographers 2 Way drop section w/ Exam side remote release (Model 8289, 8191 & 8294 only)
- One hand rapid release
- Patented non-pinch closure

SPECIFICATIONS

- 1000 lb. Load capacity
- 500 lb. Lift capacity
- 5 inch, 2-way locking casters

LENGTH	72"
WIDTH	28"
WEIGHT	290 lbs.
FOAM	Cal. B.F.T.B. #117
VINYL	Fed. Spec. Cec-A-680A
	D.O.T. FAR 25.8536, M.V.S. 302
	Port of NY/ Boston F.D. Code
ELECTRICAL	120 VAC, 1.6 amps max, 50/60 Hz,
	UL 601, CSA 222.2 No. 601.1,
	IEC 60601-1

OPTIONS
- IV Pole holder
- Padded armboard
- Carotid/Thyroid head support
- Adjustable leg supports
- Foot Switch

WARRANTY
1 Year - Electrical, mechanical & vinyl fabric
(see Warranty for complete details)

FDA Registered Establishment   **FDA Listed**

CLASSIFIED c(UL)us 3KA7

U.S. Patents: 6,353,949 B1;   5,950,262;
5,919,131; 347,691; ,184,363; 5,461,739; 6,367,104
B1; 5,250,262; 5,367,104 B1; 6,832,399 B2; 6,557,196
B2; 7,082,268: **International Patents:** 195 81 706;
2,304,568; Additional Patents Pending

USSS0808

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID: 5990-005
Alt ID:

Description: Table, Utility, General Purpose

Manufacturer: Pedigo Products   ((800) 822-3501)

Vendor: Pedigo Products   ((800) 822-3501)

Model: SG-81-SS

Mfr #: SG-81-SS
Vendor #: SG-81-SS
CAD ID: TBU0006
Item ID:

Stainless steel utility table with shelf and rail. Features open top surface, surrounded on 3 sides by 1.5"H guard rail, no drawers, full length bottom shelf, sound-proofed reinforcing channels, 4 leg base and 3" double ball bearing rubber swivel casters. Made in USA.

General Product Detail

Arch Sig: No		**Spatially Sig:** No	
Arch Code: 3 - Movable, Non-Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Medical	**Green:** No	

Physical Requirements

Width: 20.00 in (508 mm)	**Left:** N/A
Depth: 16.00 in (406 mm)	**Right:** N/A
Height: 34.00 in (864 mm)	**Front:** N/A
Max Weight: 37 lbs (16.8 kg)	**Back:** N/A
Mounting: Floor-Mobile	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B120	SPECT/CT	Project	Draft (New)	1	per 123114 meeting ntoes - Move 3722-002 to top of new stand (add stand)
Nuclear Medicine	B123	SPECT/CT	Project	Draft (New)	1	per 123114 meeting ntoes - Move 3722-002 to top of new stand (add stand)
				Total:	**2**	

SG-80-SS
utility table with shelf, drawer and rail

overall size
20"W x 16"D x 34"H

drawer size
15¼"W x 12½"L x 3"H (I.D)

SG-80-A-SS
utility table with shelf, two drawers and rail

overall size
20"W x 16"D x 34"H

drawer size
15¼"W x 12½"L x 3"H (I.D)

SG-80-B-SS *no rail*
utility table with shelf and drawer

overall size
20"W x 16"D x 34"H

drawer size
15¼"W x 12½"D x 3"H (I.D)

SG-80-C-SS *no rail*
utility table with shelf and two drawers

overall size
20"W x 16"D x 34"H

drawer size
15¼"W x 12½"D x 3"H (I.D)

SG-81-SS
utility table with shelf and rail

overall size
20"W x 16"D x 34"H

features

• Convenient and easy to use

• Stainless steel, Steril-Gard construction eliminates full sub-tops

• Improves the control of undesirable substances

• Full extending drawer hangers (except SG-81-SS)

• Sound-proofed reinforcing channels for quiet use and added strength

• 3" double ball bearing, rubber casters for silent mobility

• 1½" high 3-sided top rail

options
• Part No.   46-B   Drawer lock with key
• Part No.   06   3" casters with brakes

Printed using 100%
Clean Wind Power

AECOM

A=COM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID: 5990-037

Description: Cart, Steel

Alt ID:

Manufacturer: Radiation Products Design Inc.   ((763) 497-2071)

Mfr #: 992-040

Vendor: Radiation Products Design Inc.   ((763) 497-2071)

Vendor #: 992-040

Model: 992-040

CAD ID: TBU0310

General purpose steel utility table with storage drawer. Rounded edges, stainless steel top, locking drawer, lower shelf.

Item ID:

General Product Detail

Arch Sig: No		**Spatially Sig:** No	
Arch Code: 3 - Movable, Non-Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: C/C	**Type:** Medical	**Green:** No	

Physical Requirements

Width: 24.00 in (610 mm)	**Left:** N/A
Depth: 24.00 in (610 mm)	**Right:** N/A
Height: 36.00 in (914 mm)	**Front:** N/A
Max Weight: 145 lbs (65.8 kg)	**Back:** N/A
Mounting: Floor	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B165	Hot Lab	Project	Draft (New)	2	Per notes - steel cart, mobile lead lined place 3722-011 on
					Total: 2	

CESIUM AND RADIUM SHIELDED WORK STATION

The Cesium and Radium Shielded Work Station is the ideal vehicle for the safe storage of cesium and radium. It provides optimum protection to personnel from radiation exposure when storing sources, and has sufficient work and storage area to allow flexibility when using its contents. The steel table with drawer and heavy-duty 6" diameter swivel casters lend mobility from receiving area to final work area.

Each item sold separately on the following pages.

As a guide to determine maximum isotope content for a desired surface radiation level, the Tenth-Value Layers (in lead) are shown in this table.

Cesium-137	Iridium- I92	Radium	Cobalt 60	Gold-198
2.1 cm	2.0 cm	4.6 cm	4.0 cm	1.1 cm

*National Council on Radiation Protection and Measurements. Report No. 40, "Protection Against Radiation from Brachytherapy Sources".

Item #	Description
998-004	Shielded Storage Safe - 4 Drawer
998-006	Shielded Storage Safe - 6 Drawer
990-288	L-Block Lead Shield - 2" Thick Lead Glass
990-488	L-Block Lead Shield - 4" Thick Lead Glass
992-020	Steel Table with Drawer and Shelf
999-054	Halogen Spot Lamp
990-900	Stainless Steel Tray

S

• **Provides optimum working conditions when using cesium and radium**
• **Designed for maximum protection and versatility**

STEEL TABLES

This steel table has smooth, round-edges and the top shelf will support both a Storage Safe (Item 998-004 or 998-006) and a L-Block Shield (Item 990-488). The table has a locking storage drawer and a heavy duty lower shelf for storing radiation pigs and supplies. The support frame of the table is tubular steel with welded joints for maximum strength. The table is welded to four 6" diameter swivel, locking, casters rated at 1,200 pounds each.

Specifications

Dimensions: 28" W x 36" D x 33 3/4" H
Inside Drawer Size: 20" W x 20" D x 5" H
Finish: Durable tan textured polyurethane enamel paint

Item #	Description	Weight
992-020	Steel Table with Drawer and Shelf	150 lbs.

This steel table has smooth, rounded edges with a stainless steel top, a locking storage drawer, and a lower shelf made of 1/8" steel. The support frame is 2" square tubular steel with welded joints for maximum strength.

Specifications

Dimensions: 24" W x 24" D x 36" H
Inside Drawer Size: 16" W x 20" D x 6 3/4" H
Finish: Durable tan textured polyurethane enamel paint

Item #	Description
992-040	Steel Table with Storage Drawer

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

AECOM

Atta ID: 6015-064

Description: Cart, Supply, Chrome, 48 inch

Manufacturer: InterMetro Industries Corporation   ((570) 825-2741)

Vendor: InterMetro Industries Corporation   ((570) 825-2741)

Model: Super Erecta 48x24x69 [N556AC]

Alt ID:

Mfr #: N556AC

Vendor #: N556AC

CAD ID: SPC0876

Item ID:

Chrome wire supply cart with 4 shelves and four swivel resilient rubber casters. 48"W x 24"D x 69"H. Shelves can be adjusted at 1-inch (25mm) intervals along the entire height of the post. Features chrome shelves and plated posts, donut bumpers. 900 pound capacity.

General Product Detail

Arch Sig: No		**Spatially Sig:** Yes	
Arch Code: 3 - Movable, Non-Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Non-Medical	**Green:** No	

Physical Requirements

Width: 48.00 in (1219 mm)	**Left:** N/A
Depth: 24.00 in (610 mm)	**Right:** N/A
Height: 69.00 in (1753 mm)	**Front:** N/A
Max Weight: 92 lbs (41.7 kg)	**Back:** N/A
Mounting: Floor-Mobile	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A		**Watts:** N/A	
Hz: N/A		**Amps:** N/A	
Phase: N/A		**BTU/hr:** N/A	
KVA: N/A		**Ded. Circuit:** No	
Emer. Power: No		**Plug Type:** N/A	

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B118A	Crash Cart Alcove	Existing (Reuse)	Draft (Existing)	1	
				Total:	1	

METRO®

SUPER ERECTA SHELF®
STEM CASTER CARTS – WIRE SHELVES

- **Stem Caster Carts** combine Super Erecta Shelf® wire shelving features with the mobility of stem casters to provide a high-quality, strong and versatile material handling cart.

- **Variety of Casters Available:** Select the caster that allows the right combination of rollability and maneuverability to suit your requirements. Casters are available in swivel, rigid or brake types. All Metro casters are non-marking and come complete with a 3½" (89mm) donut bumper. Refer to sheet #11.20 for additional caster information.

- **Unique Design:** Open wire surfaces minimize dust accumulation and allow a free circulation of air and greater visibility.

- **Fast, Secure Assembly:** Post has rolled, circular grooves along its entire height at 1" (25mm) intervals. A patented, tapered split sleeve snaps together around each post. Tapered openings in the shelf corners slide over the tapered split sleeves providing a positive lock. Cart is assembled in minutes without the use of any special tools.

- **Unique Post Design:** New SiteSelect post design provides a visual guide for positioning and adjusting shelves, saving considerable time during assembly and adjustment. An easy-to-identify triple groove, every 8 inches, offers a quick way to align all shelves. Bolt leveler on post bottom compensates for uneven surfaces.

- **Adjustability:** Shelves can be adjusted at 1" (25mm) intervals along the entire height of the post.

- **Versatile Construction:** Super Erecta Shelf® wire shelving can change as quickly as your needs change. By using various accessories, hundreds of shelving combinations become possible.

NSF®

METRO®

InterMetro Industries Corporation
North Washington Street
Wilkes-Barre, PA 18705
www.metro.com

EMERSON
Storage Solutions

Job _____

METRO ®

SUPER ERECTA SHELF®
STEM CASTER CARTS – WIRE SHELVES

STANDARD UNITS
Consist of four shelves, posts, plastic split sleeves*, donut bumpers and designated casters.**

Shelf Width (in.)	(mm)	Shelf Length (in.)	(mm)	Catalog Number with Casters			
				Four Swivel Resilient Rubber Casters	Two Swivel Two Brake Resilient Rubber Casters	Four Swivel Polyuerthane Casters	Two Swivel Two Brake Polyuerthane Casters

With Super Erecta Brite™ Shelves & Plated Posts
63" (1600mm) Posts – Overall Height 69" (1753mm)

Shelf Width (in.)	(mm)	Shelf Length (in.)	(mm)	Four Swivel Resilient Rubber Casters	Two Swivel Two Brake Resilient Rubber Casters	Four Swivel Polyuerthane Casters	Two Swivel Two Brake Polyuerthane Casters
18	457	36	914	N336ABR	N336BBR	N336DBR	N336EBR
18	457	48	1219	N356ABR	N356BBR	N356DBR	N356EBR
18	457	60	1524	N366ABR	N366BBR	N366DBR	N366EBR
21	530	36	914	N436ABR	N436BBR	N436DBR	N436EBR
21	530	48	1219	N456ABR	N456BBR	N456DBR	N456EBR
21	530	60	1524	N466ABR	N466BBR	N466DBR	N466EBR
24	610	36	914	N536ABR	N536BBR	N536DBR	N536EBR
24	610	48	1219	N556ABR	N556BBR	N556DBR	N556EBR
24	610	60	1524	N566ABR	N566BBR	N566DBR	N566EBR

With Chrome Shelves & Plated Posts
63" (1600mm) Posts – Overall Height 69" (1753mm)

Shelf Width (in.)	(mm)	Shelf Length (in.)	(mm)	Four Swivel Resilient Rubber Casters	Two Swivel Two Brake Resilient Rubber Casters	Four Swivel Polyuerthane Casters	Two Swivel Two Brake Polyuerthane Casters
18	457	36	914	N336AC	N336BC	N336DC	N336EC
18	457	48	1219	N356AC	N356BC	N356DC	N356EC
18	457	60	1524	N366AC	N366BC	N366DC	N366EC
21	530	36	914	N436AC	N436BC	N436DC	N436EC
21	530	48	1219	N456AC	N456BC	N456DC	N456EC
21	530	60	1524	N466AC	N466BC	N466DC	N466EC
24	610	36	914	N536AC	N536BC	N536DC	N536EC
24	610	48	1219	N556AC	N556BC	N556DC	N556EC
24	610	60	1524	N566AC	N566BC	N566DC	N566EC

TO ORDER BY COMPONENTS

1. Order shelves from sheet 10.01 or price list. (Will be packed with plastic split sleeves*.)
2. Order stem casters from sheet 11.20 or price list. Donut bumper comes with caster.

 * Aluminum split sleeves are recommended when unit will be towed, transported over the road or otherwise subjected to vibration or jolting. To order, see sheet #11.06 or price list.
 ** Carts with polyurethane casters are designed to hold up to 900 lbs. (408 kg).
 Carts with rubber casters can hold up to 600 lbs. (272 kg).

Important: When ordering by components remember that stability decreases as the ratio of height to width increases. Units should be kept as wide and low as possible.

All Metro Catalog Sheets are available on our Web Site: **www.metro.com**

METRO ®

InterMetro Industries Corporation
North Washington Street, Wilkes-Barre, PA 18705
Phone: 570-825-2741 • Fax: 570-825-2852

For Product Information Call: 1-800-433-2232

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

AECOM

Atta ID: 6084-033

Description: Dispenser, Paper Towel, Surface Mount

Alt ID:

Manufacturer: Bobrick Washroom Equipment, Inc. ((800) 854-2280)

Mfr #: B-2621

Vendor: Bobrick Washroom Equipment, Inc. ((800) 854-2280)

Vendor #: B-2621

Model: B-2621 Classic

CAD ID: DSP0154

Surface mounted paper towel dispenser. Features satin-finish stainless steel, dispenses 200 C-fold or 275 multifold towels [measuring 3-1/8" to 3-13/16" (79-97mm) deep without adjustment or adapters] & door with knob latch and piano-hinge. Optional internal towel tray adapter kit for dispensing narrower paper towels 2-1/2" to 3-1/8" (64-79mm) deep. Contributes to LEED.

Item ID:

General Product Detail

Arch Sig: Yes	**Spatially Sig:** No
Arch Code: 1 - Fixed	**ADA:** No
Custom Code: Unassigned	**Antimicrobial:** No
Furnish Install: O/C **Type:** Non-Medical	**Green:** Yes

Physical Requirements

Width: 10.75 in (273 mm)	**Left:** N/A
Depth: 4.00 in (102 mm)	**Right:** N/A
Height: 7.25 in (184 mm)	**Front:** N/A
Max Weight: 3 lbs (1.4 kg)	**Back:** N/A
Mounting: Wall	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Recommended Mounting Height Off Floor 58' to 62' 1475 to 1575mm

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	A156A	Thyroid Uptake	Project	Draft (New)	1	1/19/16 - Added per arch email, requested from user notes.
Nuclear Medicine	A156B	Treadmill	Project	Draft (New)	1	1/19/16 - Added per arch email, requested from user notes.
					Total: 2	

Finish Face of Wall

10-13/16"
275mm

7-1/2"
190mm

S   S

3-15/16"
100mm

Knob Latch

Door

7-1/8"
180mm

3-1/2"
90mm

2"
50mm

S

S

Recommended Mounting Height Off Floor
58" to 62" 1475 to 1575mm

Recommended Mounting Height Off Floor
For Barrier-Free Design

47" 1195mm

MATERIALS:

Cabinet — 18-8 S, type-304, 22-gauge (0.8mm) stainless steel. All-welded construction. Exposed surfaces have satin finish. Towel tray has hemmed opening to dispense paper towels without tearing.

Door — 18-8 S, type-304, 22-gauge (0.8mm) stainless steel with satin finish. Secured to cabinet with a full-length stainless steel piano-hinge. Equipped with a knob latch.

Optional: Order Bobrick Part No. 262-130 TowelMate™ available as on optional accessory. TowelMate accessory allows for paper towels to dispense one at a time without bulging, sagging or falling through the towel tray opening. TowelMate fits Gamco and most manufacturers' similar models.

OPERATION:

Unit dispenses C-fold and multifold paper towels 3-1/8" to 3-13/16" (79–97mm) deep. Slots in sides of cabinet indicate refill time. Capacity: 200 C-fold or 275 multifold paper towels. To dispense narrower towels 2-1/2" to 3-1/8" (64–79mm) deep, order optional TowelMate accessory Bobrick Part No. 262-130.

INSTALLATION:

Mount unit on wall with four #10 x 1-1/4" (4.8 x 32mm) sheet-metal screws (not furnished) at points indicated by an *S*. For plaster or dry wall construction, provide concealed backing to comply with local building codes, then secure unit with sheet-metal screws. For other wall surfaces, provide fiber plugs or expansion shields for use with sheet-metal screws, or provide 1/8" (3mm) toggle bolts or expansion bolts.

SPECIFICATION:

Surface-mounted paper towel dispenser shall be type-304 stainless steel with all-welded construction; exposed surfaces shall have satin finish. Door shall be secured to cabinet with a full-length stainless steel piano-hinge and equipped with a knob latch. Paper towel tray shall have hemmed opening to dispense paper towels without tearing. Unit shall be capable of dispensing 200 C-fold or 275 multifold paper towel measuring 3-1/8" to 3-13/16" (79 to 97mm) deep. Narrower paper towels 2-1/2" to 3-1/8" (65 to 79mm) deep may be efficiently dispensed with the use of an optional TowelMate accessory, Bobrick Part No. 262-130. TowelMate accessory allows for paper towels to dispense one at a time without bulging, sagging or falling through the towel tray opening.

Surface-Mounted Paper Towel Dispenser shall be Model B-2621 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

AECOM

Description: Dispenser, Paper Towel, Surface Mount

Manufacturer: Bobrick Washroom Equipment, Inc.   ((800) 854-2280)

Vendor: Bobrick Washroom Equipment, Inc.   ((800) 854-2280)

Model: B-2621 Classic

Surface mounted paper towel dispenser. Features satin-finish stainless steel, dispenses 200 C-fold or 275 multifold towels [measuring 3-1/8" to 3-13/16" (79-97mm) deep without adjustment or adapters] & door with knob latch and piano-hinge. Optional internal towel tray adapter kit for dispensing narrower paper towels 2-1/2" to 3-1/8" (64-79mm) deep. Contributes to LEED.

General Product Detail

Arch Sig: Yes		**Spatially Sig:** No	
Arch Code: 1 - Fixed		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Non-Medical	**Green:** Yes	

Physical Requirements

Width: 10.75 in (273 mm)	**Left:** N/A
Depth: 4.00 in (102 mm)	**Right:** N/A
Height: 7.25 in (184 mm)	**Front:** N/A
Max Weight: 3 lbs (1.4 kg)	**Back:** N/A
Mounting: Wall	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Recommended Mounting Height Off Floor 58' to 62' 1475 to 1575mm

Structural:

Electrical:

Plumbing:

Mechanical:

Location

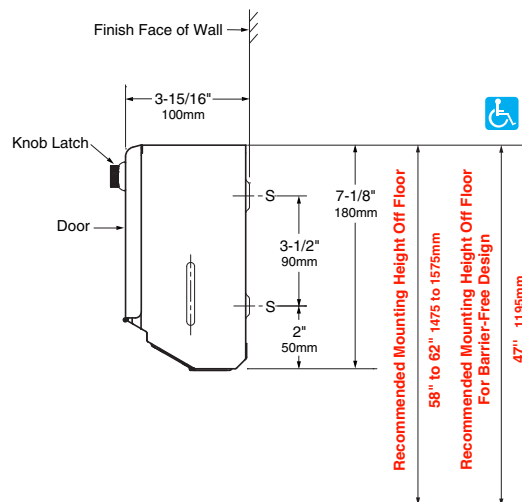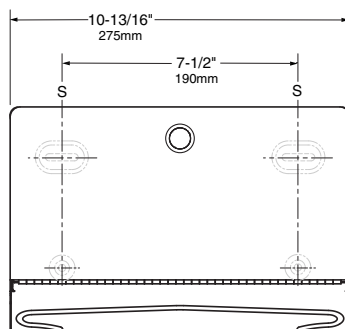| Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B165	Hot Lab	Project	Draft (New)	1	Per VA Document Equipment List Corrections - 10. 6084-005 Dispenser Paper Towel surface mount should be NEW in rooms X103, X110, X112, X107, X113, X115, X104, and X101. Per Sarah H email 040115 - All paper towel dispensers should be roll dispensers and not tri-fold towel dispensers
Nuclear Medicine	B131	NM Stress	Project	Draft (New)	1	Per VA Document Equipment List Corrections - 10. 6084-005 Dispenser Paper Towel surface mount should be NEW in rooms X103, X110, X112, X107, X113, X115, X104, and X101. Per Sarah H email 040115 - All paper towel dispensers should be roll dispensers and not tri-fold towel dispensers

Nuclear Medicine	B121	Pat Dose Room	Project	Draft (New)	1	Per VA Document Equipment List Corrections - 10. 6084-005 Dispenser Paper Towel surface mount should be NEW in rooms X103, X110, X112, X107, X113, X115, X104, and X101. Per Sarah H email 040115 - All paper towel dispensers should be roll dispensers and not tri-fold towel dispensers
Nuclear Medicine	B170	Pat Hot Tlt & Dress	Project	Draft (New)	1	Per VA Document Equipment List Corrections - 10. 6084-005 Dispenser Paper Towel surface mount should be NEW in rooms X103, X110, X112, X107, X113, X115, X104, and X101. Per Sarah H email 040115 - All paper towel dispensers should be roll dispensers and not tri-fold towel dispensers
Nuclear Medicine	B129	PET/CT	Project	Draft (New)	1	Per VA Document Equipment List Corrections - 10. 6084-005 Dispenser Paper Towel surface mount should be NEW in rooms X103, X110, X112, X107, X113, X115, X104, and X101. Per Sarah H email 040115 - All paper towel dispensers should be roll dispensers and not tri-fold towel dispensers
Nuclear Medicine	B120	SPECT/CT	Project	Draft (New)	1	Per VA Document Equipment List Corrections - 10. 6084-005 Dispenser Paper Towel surface mount should be NEW in rooms X103, X110, X112, X107, X113, X115, X104, and X101. Per Sarah H email 040115 - All paper towel dispensers should be roll dispensers and not tri-fold towel dispensers
Nuclear Medicine	B123	SPECT/CT	Project	Draft (New)	1	Per VA Document Equipment List Corrections - 10. 6084-005 Dispenser Paper Towel surface mount should be NEW in rooms X103, X110, X112, X107, X113, X115, X104, and X101. Per Sarah H email 040115 - All paper towel dispensers should be roll dispensers and not tri-fold towel dispensers
Nuclear Medicine	C168	Tech Office	Project	Draft (New)	1	Added per email from Sarah H Per VA Document Equipment List Corrections - 10. 6084-005 Dispenser Paper Towel surface mount should be NEW in rooms X103, X110, X112, X107, X113, X115, X104, and X101. Per Sarah H email 040115 - All paper towel dispensers should be roll dispensers and not tri-fold towel dispensers

Total: **8**

10-13/16" 275mm
7-1/2" 190mm
S   S

Finish Face of Wall

3-15/16" 100mm
Knob Latch
Door

7-1/8" 180mm
3-1/2" 90mm
2" 50mm

Recommended Mounting Height Off Floor
58" to 62" 1475 to 1575mm

Recommended Mounting Height Off Floor For Barrier-Free Design

47" 1195mm

MATERIALS:

Cabinet — 18-8 S, type-304, 22-gauge (0.8mm) stainless steel. All-welded construction. Exposed surfaces have satin finish. Towel tray has hemmed opening to dispense paper towels without tearing.

Door — 18-8 S, type-304, 22-gauge (0.8mm) stainless steel with satin finish. Secured to cabinet with a full-length stainless steel piano-hinge. Equipped with a knob latch.

Optional: Order Bobrick Part No. 262-130 TowelMate™ available as on optional accessory. TowelMate accessory allows for paper towels to dispense one at a time without bulging, sagging or falling through the towel tray opening. TowelMate fits Gamco and most manufacturers' similar models.

OPERATION:

Unit dispenses C-fold and multifold paper towels 3-1/8" to 3-13/16" (79–97mm) deep. Slots in sides of cabinet indicate refill time. Capacity: 200 C-fold or 275 multifold paper towels. To dispense narrower towels 2-1/2" to 3-1/8" (64–79mm) deep, order optional TowelMate accessory Bobrick Part No. 262-130.

INSTALLATION:

Mount unit on wall with four #10 x 1-1/4" (4.8 x 32mm) sheet-metal screws (not furnished) at points indicated by an *S*. For plaster or dry wall construction, provide concealed backing to comply with local building codes, then secure unit with sheet-metal screws. For other wall surfaces, provide fiber plugs or expansion shields for use with sheet-metal screws, or provide 1/8" (3mm) toggle bolts or expansion bolts.

SPECIFICATION:

Surface-mounted paper towel dispenser shall be type-304 stainless steel with all-welded construction; exposed surfaces shall have satin finish. Door shall be secured to cabinet with a full-length stainless steel piano-hinge and equipped with a knob latch. Paper towel tray shall have hemmed opening to dispense paper towels without tearing. Unit shall be capable of dispensing 200 C-fold or 275 multifold paper towel measuring 3-1/8" to 3-13/16" (79 to 97mm) deep. Narrower paper towels 2-1/2" to 3-1/8" (65 to 79mm) deep may be efficiently dispensed with the use of an optional TowelMate accessory, Bobrick Part No. 262-130. TowelMate accessory allows for paper towels to dispense one at a time without bulging, sagging or falling through the towel tray opening.

Surface-Mounted Paper Towel Dispenser shall be Model B-2621 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

AECOM

Description: Printer, Laser, Network

Manufacturer: Hewlett-Packard   (650-857-1501)

Vendor: Hewlett-Packard   (650-857-1501)

Model: LaserJet 4100n

Network laser printer. Features 24 ppm print speed, 32 MB total memory, 10/100 Base-TX internal print server, 600 sheet input capacity.

Atta ID: 6116-023
Alt ID:
Mfr #: C050A
Vendor #: C050A
CAD ID: PRN0112
Item ID:

General Product Detail

Arch Sig: Yes		**Spatially Sig:** Yes
Arch Code: 6 - IT/Computers		**ADA:** No
Custom Code: Unassigned		**Antimicrobial:** No
Furnish Install: O/O	**Type:** Non-Medical	**Green:** No

Physical Requirements

Width: 15.50 in (394 mm)	**Left:** N/A
Depth: 20.00 in (508 mm)	**Right:** N/A
Height: 13.50 in (343 mm)	**Front:** N/A
Max Weight: 39 lbs (17.7 kg)	**Back:** N/A
Mounting: Counter/Cart/Table/Pole	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: 115	**Watts:** 385
Hz: 60	**Amps:** 3.4
Phase: Single	**BTU/hr:** N/A
KVA:	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** Type B (NEMA 5-15)

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: Yes	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	G197	Admin	Existing (Reuse)	Draft (Existing)	1	
				Total:	**1**	

hp LaserJet 4100 series workgroup printers deliver the highest value in their class, with more speed, more capacity and new 'intelligent' e-enabled printer-management features.

Replacing the hp LaserJet 4050 series, hp LaserJet 4100 series come with enhanced performance and industry-leading reliability.

high performance
- super fast printing at 24ppm A4 print
- 250MHz processor ensures quicker return to application
- complex documents print faster with 16MB/32MB memory
- 12 second first page out
- HP Pro-Res & FastRes 1200 dpi print quality at full speed
- dynamic RIP-once for faster processing of multiple original prints
- duty cycle of 150,000 pages/month

ease of use
- HP Web Jetadmin enables simple installation, configuration and management from a common web browser
- toner level sensor and catridge user data minimise printer downtime by taking the guess work out of supplies ordering management
- simple, intuitive 2 line backlit LCD display and expanded control panel leads to faster problem resolution
- versatile paper handling with paper size sensors that detects paper changing
- fast IR receiver accessory for mobile users to print via handheld devices

expandability
- easy to add memory upgrades up to 256MB SDRAM (max)
- two EIO interface slots for multiple network environments
- hp EIO disk drive accessory for storing of fonts, forms or walk up printing features
- duplexer and additional paper feeders allows printer scale to meet increasing demands
- hp jetdirect internal print servers with wide choice of interface cards for connectivity for varied network typographies

intelligence
- job retention ability allows print jobs to be stored on the printer so that users can walk up and print with the control panel
- proof and hold – print one copy for proofing and hold the remaining copies until released from the printer's control panel by user
- private printing – print job will only be released when user key in the 4 digit pin from the control panel
- quick copy – make multiple copies of last print job from control panel
- stored jobs – fax covers, time sheets, calendars and other shared documents to be stored electronically at the printer eliminates the need for preprinting

the improved industry standard for workgroup printing

hp LaserJet 4100dtn shown

control panel
two-line backlit LCD display provides
simple step-by-step problem resolution

multipurpose tray
perfect for envelopes
and special
media types

**500-sheet
paper tray**
handles letter,
legal, A4, A5,
executive

**additional 500-sheet
paper tray for hp LaserJet 4100dtn**
use multiple paper types without changing trays
(1100-sheet input capacity)

**duplex printing
accessory**
saves paper and
money by allowing
you to print on
both sides of a
page and handle
booklet printing

embedded web server
allows e-mail alerts and sends users remote
printer management updates

150,000 page-per-month duty cycle
handles your business printing needs

smart cartridge with e-label chip
works with the printer and software to monitor
toner and print optimum output every time

true 1200 dpi quality
produces highest quality documents at full
engine speed

fast 24 page-per-minute print speed
12 seconds first page out reduces waiting

250 MHz processor
quickly processes large files

EIO disk drive
enables the storing of fonts, forms, or use of
walk-up printing features

memory expansion slots
expandable to 256 MB
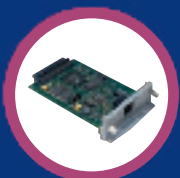
hp jetdirect 610n internal print server
connects printers to your network
anywhere in the office and enables printer
management through hp web jetadmin

hp fast IR receiver
allows mobile users wireless walk-up printing
from PDAs, laptops, palmtops, handheld
scanners, even digital cameras

stackable 500-sheet paper tray
brings total paper handling capacity to a
maximum of 1600 sheets

intelligent printing

hp LaserJet 4100 series printers are HP's most advanced, user-friendly workgroup printers. Unique communication features make it easier to set up and manage printer operation, minimise the need for user intervention, and take the guesswork out of printer status and printing supplies levels.

browser-compatible printer management

Users no longer have to wait for help with printer set-up and operation. Users on the network can review, change and configure the hp LaserJet 4100 series printer remotely using a standard web browser. This is all possible due to the **embedded web server** and **hp web jetadmin**. Together, they deliver remote printer management solution for one-to-one and one-to-many printer management.

automatic e-mail alerts

hp LaserJet 4100 series printers can be programmed to send preconfigured notifications of printer problems and job status via e-mail to designated recipients on the network. The e-mail notice even provides a hot link for ordering printing supplies via the internet.

smart components

The HP Smart Print supplies system is activated every time you put a HP Smart Print cartridge in your hp LaserJet printer. Each HP Smart Print cartridge features its own smart chip. This chip helps measure and report toner levels, provide usage information, and assure job completion. The HP cartridge, printer, and software are designed to work together-allowing you to monitor your current supplies, order new supplies, and print successfully every time.

selecting the right hp LaserJet 4100 printer

hp LaserJet 4100 (base unit)
- 24 ppm
- 16 MB memory
- 600-sheet input capacity

hp LaserJet 4100n
- base unit plus:
- 16 MB memory (32 MB total)
- 10/100 Base-TX internal print server

hp LaserJet 4100tn
- base unit plus:
- 16 MB memory (32 MB total)
- 10/100 Base-TX internal print server
- 500-sheet paper tray (1100-sheet input capacity)

hp LaserJet 4100dtn
- base unit plus:
- 16 MB memory (32 MB total)
- 10/100 Base-TX internal print server
- 500-sheet paper tray (1100-sheet input capacity)
- duplex printing accessory

technical specifications

duty cycle
- 150,000 pages per month

speed & throughput
- 24 ppm (A4)
- 250 MHz RISC microprocessor
- Instant-on fuser provides first page out in less than 12 seconds from warm or cold start
- HP Transmit Once for reduced network traffic
- Maser (RIP once) in RAM enables mopying (multiple original prints - 16 MB minimum)

resolution
- 600 dpi
- HP FastRes 1200** (1200 dpi like quality at 25 ppm)
- HP ProRes 1200 (1200x1200 dpi at 25 ppm)
- Economode with good print quality and 50% savings over regular dpi selections

** - Default setting

paper handling
All hp LaserJet 4100 series Printers:
- Up to four input bins with a total capacity of 1,600 sheets
- Standard input capacity of 600 sheets (100 sheet multipurpose tray, 500 sheet standard input tray)
- Standard output capacity of 300 sheets (250 sheets face-down and 50 sheets face-up) with output full sensor
- Straight-through paper path
- HP JetAssist connector for easy installation of paper handling accessories
- Paper level indicators
- Optional 500-sheet feeders supporting all sizes from A5 to legal and custom sizes
- Optional auto-duplex unit for two-sided printing (Note: standard in HP LaserJet 4100 DTN)
- Optional 75-envelope power feeder

hp LaserJet 4100 and 4100n printers:
- Tray 1 is a 100 sheet/10 envelope multipurpose tray for automatic and manual feeding of envelopes, labels, transparencies and other special media, 3x5 inches to legal size
- Tray 2 is a 500 sheet input tray for letter, A4, executive, A5, B5, legal, and custom sizes

hp LaserJet 4100tn and 4100dtn printers:
- Tray 1 is a 100 sheet/10 envelope multipurpose tray for automatic and manual feedng of envelopes, labels, transparencies and other special media, 3x5 inches to legal size
- Trays 2 and 3 are 500 sheet input trays for letter, A4, executive, A5, B5, legal, and custom sizes

media sizes
- A4: 210 x 297 mm (8.27 x11.7 in) size, 206 x 293 mm (8.1 x 11.53 in) printable area
- A5: 148 x 210 mm (5.8 x 8.27 in) size, 144 x 206 mm (5.66 x 8.1 in) printable area
- Letter: 216 x 279 mm (8.5 x 11 in) size, 212 x 275 mm (8.33 x 10.83 in) printable area
- Legal: 216 x 356 mm (8.5 x 14 in) size, 212x 351 mm (8.33 x 13.83 in) printable area
- Executive: 184 x 267 mm (7.25 x 10.5 in) size, 171 x 258 mm (7.08 x 10.33 in) printable area
- Executive JIS
- Minimum size: 76 x 127 mm (3 x 5 in)
- Maximum size: 216 x 356 mm (8.5 x 14 in)

envelope sizes
- #10 Regular: 241 x 105 mm (9.5 x 4.1 in) size, 237 x 100 mm (.33 x 3.95 in) printable area
- Monarch: 191 x 98 mm (7.5 x 3.9 in) size, 186 x 94 mm (7.33 x 3.7 in) printable area
- DL: 220 x 110 mm (8.66 x 4.33 in) size, 216 x 106 mm (8.5 x 4.17 in) printable area
- C5: 229 x 162 mm (9.02 x 6.38 in) size, 225 x 158 mm (8.85 x 6.22 in) printable area
- B5: 250 x 176 mm (9.84 x 6.93 in) size, 246 x 172 mm (9.68 x 6.76 in) printable area

media types
- Copier, bond, special application and recycled papers (overhead transparencies and labels designed for laser printers use Tray 1)
- Tray 1 handles 60 to 198 g/m2 (16 to 53 lb) stocks, and transparencies and labels designed for laser printers
- Tray 2 (and Tray 3 on HP LaserJet 4100TN and 4100DTN) handles 60 to 105 g/m2 (16 to 28 lb stock)
- Optional 500-shet tray (Tray 3/4) handles 60 to 105 g/m2 (16 to 28 lb) stock
- Optional envelope feeder and Tray 1 handle 75 to 105 g/m2 (20 to 28 lb) envelopes
- Optional auto-duplex unit (standard on LaserJet 4100DTN) handles 60 to 105 g/m2 (16 to 28 lb) stock

print orientation
- Portrait, landscape and reverse landscape
- Binding options: 2,4,9,16 pages per sheet
- Booklet printing with duplexor
- N-up printing

management
- Industry-leading plug and print solution for NT users that automates client installation
- HP Web JetAdmin printer management software for simple installation, configuration, and management from a common web browser
- Internet software disk replication utility for distributing custom drivers
- HP TonerGauge technology includes a toner gauge and a paper gauge to help maximise printer uptime by minimising the guesswork involved in supplies management
- Enhanced driver support of standard printer features for Microsoft Windows NT workstation 3.51/4.x,Windows 95, Windows 98, Windows 3.x, Macintosh, IBM OS/2 Warp, MS-DOS and UNIX (HP-UX, Solaris, SunOS)
- HP Internet Installer can automatically update any of the printer drivers in Windows 95, Windows 98 and Windows NT 4.x environments
- All printer software and driver utilities ship on one CD-ROM
- SNMP and industry standard printer MIB compliant for network management compatibility

job retention/convenience features (optional disk drive required)
- Private Printing and Proof-and-Hold capabilities provide security and convenience
- Print jobs can also be retained on the optional hard disk and printed later through Quick Copy and Stored Job functionality

network connectivity
hp LaserJet 4100 printers:
- Bidirectional IEEE 1284-compliant parallel interface
- Two open EIO expansion slots for optional HP JetDirect 610N (EIO) Internal Print Servers for Ethernet 10BaseT, 10Base2, 100BaseTX, LocalTalk and Token Ring networks
- Fast Infrared port for optional infrared receiver

hp LaserJet 4100n, 4100tn, and 4100dtn printers:
- HP JetDirect 610N (EIO) Internal Print Server for Ethernet 10/100 Base-TX Fast Ethernet network environments
- Fast Infrared port and receiver (optional)
- Bidirectional IEEE 1284-compliant parallel interface
- One open EIO expansion slot for optional HP and third-party accessories.
- HP JetSend enabled
- Automatic switching between languages and ports
- HP Web JetAdmin requires installation on one of the following network servers: Microsoft Windows NT, IBM OS/2 Warp, HP-UX or Solaris
- HP JetDirect 610N (EIO) Internal Print Servers support all major network operating systems and provide flash memory for future upgrades

printer languages
- HP PCL6
- HP PCL 5e
- PostScript 3 emulation
- Automatic language switching

control panel
- Intuitive operation and complete, easy to understand messaging
- Expanded Control Panel Help for context-based problem resolution
- Two-line backlit LCD display and three LEDs
- Buttons: Go, Cancel Job, Menu, Item, Value, Select
- Indicators: Ready, Data, Attention
- Control panel can be locked through software
- Messages can be displayed in 17 languages: Czech, Danish, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese (Katakana), Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, or Turkish

font capabilities
- 110 scalable TrueType fonts (80 built-in, 30 via HP FontSmart; all PCL and PostScript accessible
- HP FontSmart software for easy-to-use font management capabilities
- Intellifont and built-in TrueType rasterizers

environmental ranges
Temperature for printer and toner:
- Operating: 10degrees to 35 degrees C (50° to 91° F)
- Storage: 0 degrees to 35 degrees C (32° to 95° F)

Humidity:
- Operating: 20% to 80% RH
- Storage: 10% o 95% RH

Acoustics:
- Operating position: L<58dB (A) printing, L<32 dB (A) standby (per ISO 9296, DIN 45635, T.19)
- Bystander: 1m L<52 dB (A) printing, L<26 dB (A) standby (per ISO 9296, DIN 45635, T.19)
- Sound Power: 0 bels inaudible (A) Powersave LWAD, 6.6 bels (A) printing LWAD, 4.1 bels (A) standby (per ISO 9296, DIN 45635, T.19)

power requirements
- Source: 100 to 127 volts (+/- 10%), 50/60 Hz (+/-2Hz) or 220 to 240 volts (+/-10%) 50/60 Hz (+/-2Hz)
- Printers voltage ranges depend upon the country in which the printer is purchased
- Frequency: 50 or 60 Hz (+/- 2 Hz)

power consumption
hp LaserJet 4100 printers:
- Printing: 317 watts
- Standby: 21 watts
- Powersave: 16 watts (EPA Energy Star)

hp LaserJet 4100N, 4100TN, 4100DTN printers:
- Printing: 385 watts
- Standby: 26 watts
- Powersave: 19 watts (EPA Energy Star)

dimensions (H x W x D)
hp LaserJet 4100:
- 345 x 390 x 506 mm (13.5 x 15.4 x 19.9 in)

hp LaserJet 4100n:
- 345 x 390 x 506 mm (13.5 x 15.4 x 19.9 in)

hp LaserJet 4100tn:
- 465 x 390 x 506 mm (18.3 x 15.4 x 19.9 in)

hp LaserJet 4100dtn printer:
- 465 x 390 x 565 mm (15.2 x 15.4 x 22.2 in)

weight
hp LaserJet 4100 printer:
- 18 kg (39 lb)

hp LaserJet 4100n printer:
- 18 kg (39 lb)

hp LaserJet 4100tn printer:
- 25 kg (55 lb)

hp LaserJet 4100dtn printer:
- 28 kg (62 lb)

warranty
- 1-year return to HP/dealer
- Enhance/upgrade basic warranty with options that included 1-5 year return to HP or on-site warranties

further information

The latest information on HP products and service is available on the World Wide Web at
http://www.hp.com or www.hp.com/go/lj4100

For more information, call your local Hewlett-Packard sales office or your nearest HP authorised dealer:

hp customer information center

Australia	HP Online
	132347
	ACN 004 394 763
China	+86 10 6564 5858
Hong Kong	+852 2599 7066
India	+91 11 684 2333
Indonesia	+62 21 579 00323
Korea	+82 2 3270 0720
Malaysia	+60 3 2698 1111
New Zealand	+0800 733 547
Philippines	+63 2 814 1077
Singapore	+65 272 1788
Taiwan	+886 2 2717 0055
Thailand	+66 2 661 4000
Vietnam	+848 823 4530

For the following countries, please fax your queries to: +65 275 6707
- Bangladesh • Brunei • Cambodia • Pakistan • Sri Lanka

ordering information

number	description
C8049A	HP LaserJet 4100
C8050A	HP LaserJet 4100N
C8051A	HP LaserJet 4100TN
C8052A	HP LaserJet 4100DTN

hp supportpack option[1]

H5479A	Next business day, on-site response, 3 years

paper handling accessories

C8053A	75-sheet envelope feeder
C8054A	Duplex assembly for two-sided printing
C8055A	500-sheet optional paper feeder (x, y adjustable)
C8056A	500-sheet universal replacement tray (x, y adjustable)

supplies and accessories

C8061X	10,000 page toner cartridge
C8061A	6,000 page toner cartridge
C4103A	Fast InfraRed receiver
C8057A	Preventative Maintenance Kit 110v
C8058A	Preventative Maintenance Kit 220v

printer connectivity solutions

J4135A	HP JetDirect Connectivity card for USB, Serial, and LocalTalk connections

other EIO accessories

J6054A	HP EIO Disk Drive - 5 GB

interface and cables

C2950A	2 m/7ft. IEEE A to B parallel cable
C2951A	parallel (25-pin male to 36-pin female) 3m/10ft cable for HP Vectra, IBM PC/AT & compatibles
C2932A	Serial (9-pin female to 9-pin male) 3m/10ft. cable for HP Vectra,
C2933A	Serial (9-pin female to 9-pin male) 3m/10ft. Cable for HP Vectra, IBM PC/AT & compatibles
C2809A	Serial (25-pin female to 9-pin male) cable adapter
92215S	Macintosh serial cable
92215N	Macintosh network

memory

C4286A	2 MB Flash DIMM
C4287A	4 MB Flash DIMM
C7842A	8 MB SDRAM DIMM
C7843A	16 MB SDRAM DIMM
C7845A	32 MB SDRAM DIMM
C7846A	64 MB SDRAM DIMM
C9121A	128 MB SDRAM DIMM

hp jetdirect 600n/610n internal print servers

J3110A	Ethernet (10Base-T)
J3111A	Ethernet (10Base-T, 10Base2) and LocalTalk
J4167A	Token Ring (available from June 01 onwards)
J4169A	Fast Ethernet (100Base-TX) and Ethernet (10Base-T) (included with HP LaserJet 4100N and 4100TN models)

Approximate figures. Exact speed will vary depending on the system configuration, software program and document complexity.

[1] Please check with your local HP reseller for availability of other HP Supportpack options.

hp customer care center

Australia	+61 3 8877 8000
China	+86 10 6564 5959
Hong Kong	+852 800 96 7729
India	+91 11 682 6035
Indonesia	+62 21 350 3408
Korea	+82 2 3270 0700
Malaysia	+60 3 2695 2566
New Zealand	+64 9 356 6640
Philippines	+63 2 867 3551
Singapore	+65 272 5300
Taiwan	+886 2 2717 0055
Thailand	+66 2 661 4000
Vietnam	+848 823 4530

- For more information on support, visit:
  http://www.hp.com/go/support
- For more information on HP Supportpack, visit:
  http://www.asiapac.hp.com/supportpack
- For more information on HP Genuine Parts, visit:
  http://www.hp.com/go/hpparts

hp
®
i n v e n t

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Description: PACS, Allowance

Manufacturer: To Be Determined   (000-000-0000)

Vendor: To Be Determined   (000-000-0000)

Model: TBD

General Product Detail

Arch Sig: Yes		**Spatially Sig:** No	
Arch Code: 2 - Movable, Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Medical	**Green:** No	

Physical Requirements

Width: N/A	**Left:** N/A
Depth: N/A	**Right:** N/A
Height: N/A	**Front:** N/A
Max Weight: N/A	**Back:** N/A
Mounting: N/A	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	A156C	NM Read/Viewing	Existing (Reuse)	Draft (Existing)	1	per 123114 meeting notes - PACS is existing
				Total:	1	

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID: 6176-003

Alt ID:

Description: Chair, Clinical, Blood Draw, Bariatric

Manufacturer: MarketLab Inc.　(800-237-3604)

Vendor: MarketLab Inc.　(800-237-3604)

Model: ML10503 Extra Wide

Mfr #: ML10503

Vendor #: ML10503

CAD ID: CHA0225

Item ID:

Bariatric Phlebotomy Chair. 35"W seat width, 20"H seat height. Center support and upholstered seat with 2" padding. Anti-microbial vinyl upholstery. Adjustable Flip arm depth. 700 lbs weight capacity.

General Product Detail

Arch Sig: No		**Spatially Sig:** Yes	
Arch Code: 3 - Movable, Non-Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** Yes	
Furnish Install: O/O	**Type:** Medical	**Green:** No	

Physical Requirements

Width: 48.00 in (1219 mm)	**Left:** N/A
Depth: 32.00 in (813 mm)	**Right:** N/A
Height: 36.00 in (914 mm)	**Front:** N/A
Max Weight: 125 lbs (56.7 kg)	**Back:** N/A
Mounting: Floor	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B121	Pat Dose Room	Existing (Reuse)	Draft (Existing)	2	Bariatric Dose Chair Clinton Industries Market Lab Catalog Standard Height Extra Wide Bariatric Chair without side cabinet Rated at 700lbs (only chair available above 500lbs) Item # ML10503 – Royal Blue
					Total: 2	

Extra Wide Chair Bariatric
Model: ML10503

• Anti-microbial vinyl upholstery
• Centre seat support and plywood seat construction safely accommodates up to 700lbs
• Extra-deep, 21" seat
• Models without side cabinet have 2 front and 2 side arms

• Dimensions: 48"W x 32"D x 36"H

• 20" Seat height, 35"W x 21"D
• Standard Vinyl
• 2" thick padding on seat, back, and arms for optimum patient comfort
• Flip-up arms allow for easier entry and exit and lock in place during use
• Front and side arms are height- and

depth- adjustable
• Dual-knobs for secure arm placement
• Heavy-gauge 1.25" steel-welded frame
• Easy-to-clean anti-microbial vinyl upholstery

SPECIFY STANDARD VINYL COLOR WHEN ORDERING
Call Customer Care for free vinyl color samples

Alabaster	Allspice	Aubergine	Burgundy	Black	China Green	Cream	Clamshell
Desert Tan	Dove Gray	Emerald	Graphite	Gunmetal	Mulberry	Neutral	Purplegray
Royal Blue	Sapphire	Slate Blue	Tomato	Viscaya Palm	Wedgewood	Yellow	

SPECIFY CAL 133 FIRE CODE VINYL COLOR WHEN ORDERING
Call Customer Care for free vinyl color samples

| Almond | Bottle Green | Clamshell | Claret | Dusty Jade | Grape | Nearly Black | Navy |
| Pearl Gray | Royal Blue | White Often | | | | | |

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

AECOM

Description: Dispenser, Glove, Triple Box

Manufacturer: MarketLab Inc.　　(800-237-3604)

Vendor: MarketLab Inc.　　(800-237-3604)

Model: ML3615 Acrylic Side-Loading

Wall mounted, side-loading, acrylic glove box holder/dispenser. Holds 3 boxes. Dividers suspend boxes independently (no need to remove other boxes when refilling). Mounting hardware included.

Atta ID: 6364-015
Alt ID:
Mfr #: ML3615
Vendor #: ML3615
CAD ID: GLV0050
Item ID:

General Product Detail

Arch Sig: Yes		**Spatially Sig:** No	
Arch Code: 1 - Fixed		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/C	**Type:** Medical	**Green:** No	

Physical Requirements

Width: 10.25 in (260 mm)	**Left:** N/A
Depth: 4.25 in (108 mm)	**Right:** N/A
Height: 16.00 in (406 mm)	**Front:** N/A
Max Weight: 5 lbs (2.3 kg)	**Back:** N/A
Mounting: Wall	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A		**Watts:** N/A	
Hz: N/A		**Amps:** N/A	
Phase: N/A		**BTU/hr:** N/A	
KVA: N/A		**Ded. Circuit:** No	
Emer. Power: No		**Plug Type:** N/A	

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	A156A	Thyroid Uptake	Project	Draft (New)	1	1/19/16 - Added per arch email, requested from user notes.
Nuclear Medicine	A156B	Treadmill	Project	Draft (New)	1	1/19/16 - Added per arch email, requested from user notes.
				Total:	**2**	

SIDE-LOADING ACRYLIC GLOVE DISPENSER
Model: ML3615

- Unique dividers suspend boxes independently
- No need to remove other boxes
- Large cut outs make it easy to grab empty boxes
- Designed to hold any brand of glove
- Visual reminder to promote glove wearing

Product Attributes	
Cleaning Instructions	Use mild soap and warm water (NO ammonium or bleach based products)
Orientation	Vertical, benchtop
Material	Acrylic
Country Of Origin	USA
Latex Free	Yes, including packaging
Compartment Quantity	3, each compartment is 5.25" x 10" x 3.75"
Mounting Hardware	Yes
ODDepth	4.125"
ODHeight	16"
ODWidth	10.125"
Ship Height	7 "
Ship Length	19 "
Ship Width	19 "
Std Gross Wt.	5 lbs
Thickness	.177"
Capacity	3 glove boxes

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Description: Dispenser, Glove, Triple Box

Manufacturer: MarketLab Inc.   (800-237-3604)

Vendor: MarketLab Inc.   (800-237-3604)

Model: ML3615 Acrylic Side-Loading

Wall mounted, side-loading, acrylic glove box holder/dispenser. Holds 3 boxes. Dividers suspend boxes independently (no need to remove other boxes when refilling). Mounting hardware included.

Atta ID: 6364-015
Alt ID:
Mfr #: ML3615
Vendor #: ML3615
CAD ID: GLV0050
Item ID:

General Product Detail

Arch Sig: Yes		**Spatially Sig:** No	
Arch Code: 1 - Fixed		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Medical	**Green:** No	

Physical Requirements

Width: 10.25 in (260 mm)	**Left:** N/A	
Depth: 4.25 in (108 mm)	**Right:** N/A	
Height: 16.00 in (406 mm)	**Front:** N/A	
Max Weight: 5 lbs (2.3 kg)	**Back:** N/A	
Mounting: Wall	**Top:** N/A	
	Bottom: N/A	

Electrical Requirements

Volts: N/A	**Watts:** N/A	
Hz: N/A	**Amps:** N/A	
Phase: N/A	**BTU/hr:** N/A	
KVA: N/A	**Ded. Circuit:** No	
Emer. Power: No	**Plug Type:** N/A	

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No	
Water - Hot: No	**Drain:** No	
Water - Treated: No	**Steam:** No	
Vent: No	**Vacuum - Dental:** No	
Tech Connect: No	**Vacuum - Medical:** No	

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B165	Hot Lab	Project	Draft (New)	1	
Nuclear Medicine	B131	NM Stress	Project	Draft (New)	1	Per VA document Meeting Minutes 100% CD Design Submission Reveiw Meeting dated 09-30-15, Item 28 - AS706 ....Add glove dispenser to NM Stress B131...
Nuclear Medicine	B121	Pat Dose Room	Project	Draft (New)	1	
Nuclear Medicine	B129	PET/CT	Project	Draft (New)	1	
Nuclear Medicine	B119	PET/CT Hot Wait	Project	Draft (New)	1	
Nuclear Medicine	B120	SPECT/CT	Project	Draft (New)	1	
Nuclear Medicine	B123	SPECT/CT	Project	Draft (New)	1	
Nuclear Medicine	B126	SPECT/CT Hot Wait	Project	Draft (New)	1	
				Total:	**8**	

SIDE-LOADING ACRYLIC GLOVE DISPENSER
Model: ML3615

• Unique dividers suspend boxes independently
• No need to remove other boxes
• Large cut outs make it easy to grab empty boxes
• Designed to hold any brand of glove
• Visual reminder to promote glove wearing

Product Attributes	
Cleaning Instructions	Use mild soap and warm water (NO ammonium or bleach based products)
Orientation	Vertical, benchtop
Material	Acrylic
Country Of Origin	USA
Latex Free	Yes, including packaging
Compartment Quantity	3, each compartment is 5.25" x 10" x 3.75"
Mounting Hardware	Yes
ODDepth	4.125"
ODHeight	16"
ODWidth	10.125"
Ship Height	7 "
Ship Length	19 "
Ship Width	19 "
Std Gross Wt.	5 lbs
Thickness	.177"
Capacity	3 glove boxes

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

AECOM

Atta ID: 6405-013

Alt ID:

Description: Bookcase, Office

Manufacturer: National Business Furniture ((414) 615-3536)

Vendor: National Business Furniture ((414) 615-3536)

Model: NBF Signature Contemporary 71' 5-Shelf 32751

Mfr #: 32751

Vendor #: 32751

CAD ID: BKC0017

Item ID:

Bookcase with five shelves. 32"W x 14"D x 71"H. Features laminate surfaces, wood-grain finish, 3mm PVC to protect edges. Available in 3 colors. Ships ready to assemble. Greenguard Certified.

General Product Detail

Arch Sig: No		**Spatially Sig:** No	
Arch Code: 5 - Furniture		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/C	**Type:** Non-Medical	**Green:** Yes	

Physical Requirements

Width: 32.00 in (813 mm)	**Left:** N/A
Depth: 14.00 in (356 mm)	**Right:** N/A
Height: 71.00 in (1803 mm)	**Front:** N/A
Max Weight: 161 lbs (73.0 kg)	**Back:** N/A
Mounting: Floor	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A		**Watts:** N/A	
Hz: N/A		**Amps:** N/A	
Phase: N/A		**BTU/hr:** N/A	
KVA: N/A		**Ded. Circuit:** No	
Emer. Power: No		**Plug Type:** N/A	

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: Yes	**Pre-approval:**

Product and Project Item Notes

Specification:

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	G194	Library	Existing (Reuse)	Draft (Existing)	3	per 123114 meeting notes - Add 7' tall bookshelves, similar to 6732-008 per ntoes - Tall book shelves (3) 7' tall shelves
Nuclear Medicine	C169	NM Physician Office	Project	Draft (New)	2	per ntoes - Tall book shelves (3) 7' tall shelves Per VA Document Equipment List Corrections - 11. 6405-013 Book Case Office should be (2) new in X102 instead of (3) new.
				Total:	**5**	

National Business Furniture®
Furniture that Works.
People who Care.

www.nationalbusinessfurniture.com

NBF Signature Series Contemporary Collection

71" Five-Shelf Bookcase
Item No: 30751

- Laminate Surfaces
- 3 colors
- Wood Grain Finish
- 3mm PVC on Edges
- Ready to Assemble.

Dimensions: 32"W x 14"D x 71"H
Weight: 161 lbs.
Lifetime Guarantee

Product Description

NBF Private Label 71" Five-Shelf bookcase is a great investment because it is affordable and built to last. Durable laminate surface will stand the test of time; its scuff and scratch resistant, plus easy to clean.

71" Five-Shelf Bookcase is designed with clean lines and a wood-grain finish for a professional look that will blend well with any decor. To maintain that professional appearance over time, 3mm PVC is used to protect edges against bumps and knocks.

Ships ready to assemble.

color options:
American Mahogany, American Cherry, American Dark Cherry,American Espresso .

This product has been Greenguard certified to support better indoor air quality for offices, homes, schools and healthcare facilities. Products that are Greenguard certified are regularly tested to ensure that their chemical and particle emissions meet acceptable pollutant standards.

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Description: Bracket, Television, Wall, Flat Panel

Manufacturer: Ergotron Inc.

Vendor: Ergotron Inc.

Model: LX HD Wall Mount Pivot

Atta ID: 6418-085

Alt ID:

Mfr #: 45-269-009

Vendor #: 45-269-009

CAD ID: BRK0551

Item ID:

General Product Detail

Arch Sig: Yes		**Spatially Sig:** No	
Arch Code: 1 - Fixed		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: C/C	**Type:** Non-Medical	**Green:** No	

Physical Requirements

Width: 8.00 in (203 mm)	**Left:** N/A
Depth: 3.75 in (95 mm)	**Right:** N/A
Height: 8.50 in (216 mm)	**Front:** N/A
Max Weight: 5 lbs (2.3 kg)	**Back:** N/A
Mounting: Wall	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: Yes	**Pre-approval:**

Product and Project Item Notes

Specification:

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B119	PET/CT Hot Wait	Project	Draft (New)	1	Per 123114 meeting notes - TV may be deleted, but provide outlets for future use 012115 addendum to 123114 meeting notes - VA - Clinicians request TV's in both spaces
Nuclear Medicine	B126	SPECT/CT Hot Wait	Project	Draft (New)	1	012115 addendum to 123114 meeting notes - VA - Clinicians request TV's in both spaces
				Total:	**2**	

Ergotron® LX HD

Wall Mount Pivot and Swing Arm

Highlights

- Constant Force (CF) patented motion technology produces smooth tilt adjustment—set display in position with just a light touch

- Position your LCD or TV for maximum comfort and productivity

- Fits VESA-compliant LCDs ≤ 42″ weighing up to 50 lbs (23 kg)

- Up to 20° of smooth continuous tilt adjustment (15° forward/5° back)

- Up to 360° of pan motion with the Swing Arm, 40° on the Pivot

- Allows display to be rotated for portrait or landscape viewing

- Compatible with multiple VESA hole mounting patterns: 75 x 75, 100 x 100, 100 x 200, 200 x 200 mm

- Tested to four times its maximum weight capacity as required by UL Standard 1678—do not exceed 50 lbs in actual use

Ergotron's LX HD mounts offer a flexible alternative to rigid wall mounts for LCD displays or TVs weighing up to 50 lbs (23 kg). Embedded with Ergotron's patented CF technology, the LX HD Wall Mount enables effortless screen adjustment for optimal viewing comfort. These dependable solutions secure your flat panel investment while their sleek design elegantly complements home or office décor. LX HD mounts offer reliability, quality and design at a genuinely competitive price.

- Effortless adjustment for premium viewing
- Secure your display investment with a quality and reliable solution
- Aesthetics make it the perfect accessory for the home or office
- Swing Arm extends LCD out from the wall 13″ (33 cm) for comfortable viewing
- Excellent price performance—most affordable wall mount solution for medium displays

JUST STAND .ORG

ERGOTRON®

Patented CF pivot motion technology produces smooth tilt adjustment

Screen's viewing angle is easily adjusted for each user

Sleek and strong—LX HDs have been tested to four times their maximum weight capacity as required by UL Standard 1678 (do not exceed 50 lbs in actual use)

Cables are guided along underside of arm

Tilt lock-down feature also provides tilt tension for odd-sized displays that have an extremely forward center of gravity

Simple 3-Step Install Process
① Attach wall base to wall
② Attach mounting brackets to display
③ Hang display on wall plate

Swing Arm LCD Size	Weight Capacity	Lift	Tilt	Pan	Rotation	VESA
≤ 42″	≤ 50 lbs* ≤ 23 kg	—	20°	360°	360° P/L	MIS-D/E/F**

Pivot LCD Size	Weight Capacity	Lift	Tilt	Pan	Rotation	VESA
≤ 42″	≤ 50 lbs* ≤ 23 kg	—	20°	40°	360° P/L	MIS-D/E/F**

*Display depth greater than 4″ (10 cm) may diminish capacity.

**VESA MIS-D, 75/100 (hole pattern = 100 x 100 mm & 75 x 75 mm), MIS-E (hole pattern = 200 x 100 mm), MIS-F (hole pattern = 200 x 200 mm ONLY). Optional VESA Bracket Adaptor Kit (97-474) can be ordered separately for MIS-F interface with hole pattern = 400 x 200 mm

LCD Size is approximation. Dimension is diagonal measurement of screen. LCD Size may be exceeded as long as screen weight does not exceed maximum weight capacity of the mount.

Product Name Part Number	LX HD Wall Mount Swing Arm 45-268-026 (polished aluminum) LX HD Wall Mount Pivot 45-269-009 (black)
Product Includes	Hardware for mounting to wood stud or concrete wall
Depth	3.7″ (9,1 cm)
Shipping Dimensions	45-268-026: 12.5″ x 7.75″ x 4.5″ (31,8 x 19,7 x 11,4 cm) 45-269-009: 9″ x 9″ x 3.9″ (22,9 x 22,9 x 9,9 cm)
Shipping Weight	45-268-026: 5.5 lbs (2,5 kg) 45-269-009: 4.6 lbs (2,1 kg)
Warranty	5 years

ERGOTRON®

Ergotron® LX

HD Wall Mount Pivot and Swing Arm

Dimensions
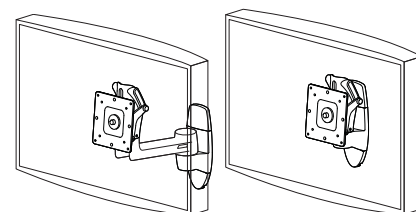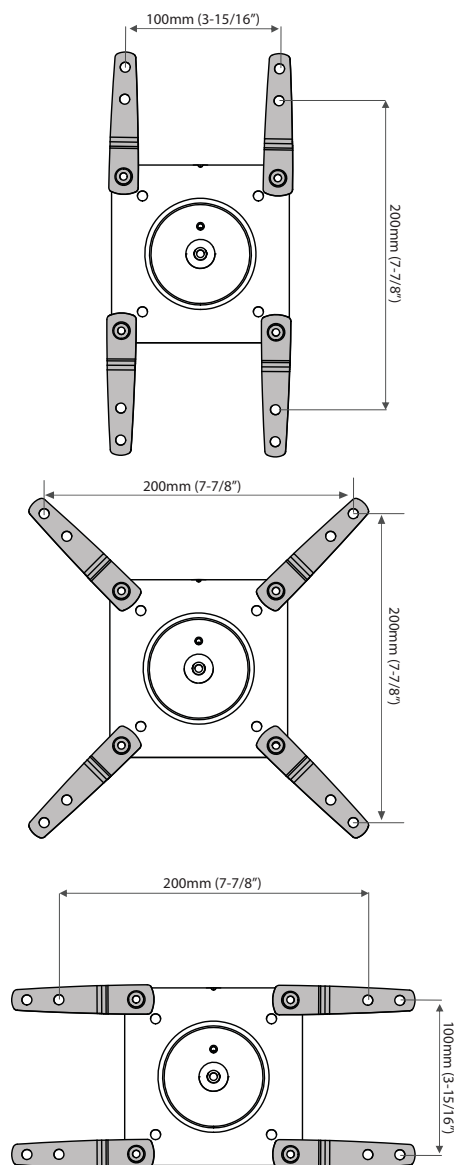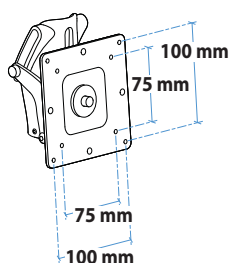
Wall Mount Bracket

1.125"
(28.6mm)

.7"
(17.5mm)

6"
(152mm)

4.1"
(104mm)

.6"
(15mm)
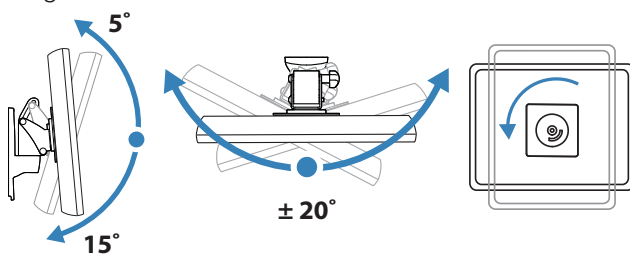
Stud mounting:
M8 x 80mm or 5/16" x 3"
and flat washer 8mm or
5/16" (2 places)

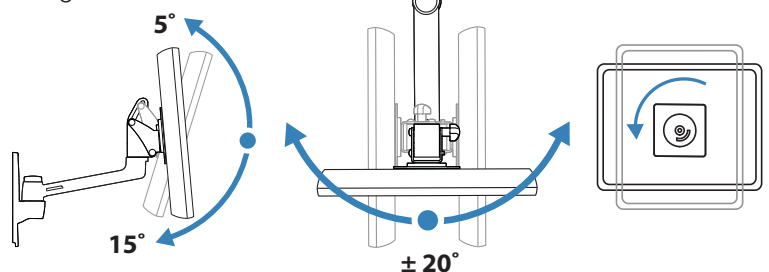Wall Track mounting:
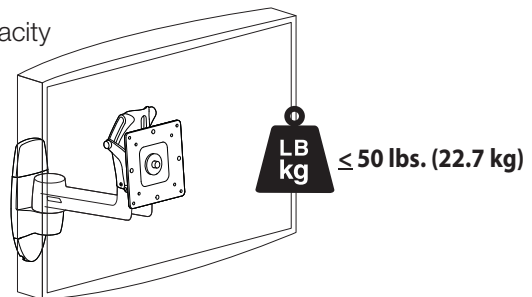Button head cap screw
#10-24 x 5/8" (4 places)

8.4"
(210 mm)

3.7" (92 mm)

11.8"
(295 mm)

2.9" (73 mm)

12" (300 mm)

13"
(324 mm)

Range of Motion

5°

15°

± 20°

Range of Motion

5°

15°

± 20°

Weight Capacity

LB
kg

≤ 50 lbs. (22.7 kg)

Weight Capacity

LB
kg

≤ 50 lbs. (22.7 kg)

ERGOTRON®

Ergotron® LX

HD Wall Mount Pivot and Swing Arm

Display interface

100 mm
75 mm
75 mm
100 mm

100mm (3-15/16")
200mm (7-7/8")

200mm (7-7/8")
200mm (7-7/8")

200mm (7-7/8")
100mm (3-15/16")

ERGOTRON®

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Description: Computer Workstation, Data Mgt, Imaging

Manufacturer: GE Healthcare - Imaging Systems   (800-886-0815)

Vendor: GE Healthcare - Imaging Systems   (800-886-0815)

Model: Xeleris 3 Desktop

Functional imaging workstation for Nuclear Medicine, PET, NM/CT, and PET/CT processing, analysis, and review. Features PACS-compatible DICOM with IHE profile support, multi-process architecture for simultaneous analysis and follow up of SPECT and PET/CT procedures. Provides instant access and registration to previous exams including SPECT, PET, MRI and CT scans and the ability to interconnect with all current and previous GE NM/PET cameras and many others as well. Available dual widescreen monitors for side-by-side multi-modality review.

Atta ID: 6428-026
Alt ID:
Mfr #: S8006PJ
Vendor #: S8006PJ
CAD ID: CIS0113
Item ID:

General Product Detail

Arch Sig: Yes	**Spatially Sig:** No
Arch Code: 2 - Movable, Elect	**ADA:** No
Custom Code: Unassigned	**Antimicrobial:** No
Furnish Install: O/V **Type:** Medical	**Green:** No

Physical Requirements

Width: 6.75 in (171 mm)	**Left:** N/A
Depth: 18.00 in (457 mm)	**Right:** N/A
Height: 17.75 in (451 mm)	**Front:** N/A
Max Weight: 34 lbs (15.4 kg)	**Back:** N/A
Mounting: Counter/Cart/Table/Pole	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: 120	**Watts:** N/A
Hz: 60	**Amps:** N/A
Phase: Single	**BTU/hr:** N/A
KVA:	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** Type B (NEMA 5-15)

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: Yes	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Dimensions are for PC tower only. System integrates with monitor(s) and other peripherals.

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B130	PET/CT Control	Existing (Reuse)	Draft (Existing)	2	Per 123114 meeting notes-provide two 6428-026 monitors.VA purchased(one is existing) Per Sarah h email 020615-All the computers in the Pet/CT control room will be existing.One is the OI&T computer and it should have only one monitor.The second will be the camera computer and depending on the company that gets the bid it will either be one computer with two monitors or two separate computers with single monitors.let's plan for the camera computer to have two separate computers,..have greatest power need.

Total: 2

Xeleris 3

Data Sheet

Overview

Xeleris* 3 functional imaging workstation is a Nuclear Medicine, PET, NM/CT, and PET/CT processing, analysis, and review system. Designed with productivity in mind, it can accelerate workflow and provides a powerful clinical diagnostic tool to the medical imaging community.

Combining streamlined workflow with a comprehensive clinical library and extensive networking capabilities on a functional imaging workstation, Xeleris 3 is the nucleus of productivity in any department. Utilizing the GE Healthcare-wide graphical user interface, Xeleris 3 is the processing and review platform of the Discovery* NM/CT series, Infinia* Hawkeye* 4, Ventri*, Discovery PET/CT 600 series, and all other molecular imaging cameras in GE Healthcare's current offering. Xeleris 3 provides the automated processing and connectivity necessary in today's demanding environment.

Xeleris 3 operates in a variety of client-server configurations. It features optional Xeleris Floating License (XFL) technology and Xeleris Suite for PACS. XFL allows patient studies and the Xeleris applications needed for their processing and review to be accessed across a LAN or a WAN network on a facility provided Windows-based PC (minimum hardware and software requirements apply), thus providing an untethered solution for simultaneous use of Xeleris applications across the enterprise. Xeleris Suite extends this power to GE Healthcare Centricity* PACS systems.

Xeleris 3 is available in full, Essential and Molecular Breast Imaging (MBI) configurations. The Essential and MBI configurations of Xeleris are designed to simplify workflow and provide greater economy as only applications needed for specific imaging systems are provided. The Essential and Molecular Breast Imaging (MBI) configuration are fully upgradeable to full Xeleris 3 processing and review.

Primary Benefits

Streamlined workflow

Xeleris 3 can enhance nuclear imaging productivity through **Ignite** operational flexibility and automated workflow. Xeleris 3 combines the speed of automated intuitive processing with the freedom to modify processing parameters (if necessary), helping to optimize study results without losing the benefits of automation.

Ignite, combined with GE nuclear imaging systems, can make most clinical scans as easy as 1, 2, 3:
1. Select the patient from the worklist on the camera
2. Position the patient and press Start (*Ignite* the process)
3. Review the results that will be automatically displayed without the need for further interaction.

Clinical library

Xeleris 3 features a comprehensive clinical library of user-friendly processing and review tools and protocols, covering all nuclear imaging needs, and providing the flexibility to customize protocols per user's requirements.

Access and Integration

Xeleris 3 brings together the entire molecular imaging department, including GE Healthcare and most non-GE Healthcare nuclear imaging systems, providing effective solutions for current and future information technology needs. Xeleris 3 supports processing, archiving and review of data received from DICOM 3 compatible NM, PET, CT and MR data.

Legacy products compatibility

Using the DICOM protocol as its communication standard, Xeleris bridges past to present through its support of earlier communication protocols. It interfaces with GE, SMV, and Elscint nuclear imaging and PET systems, scanners, and workstations, including the Infinia and Discovery line of hybrid imagers, Millennium, DS-series, Apex, Star family, Vision, Genie*, XPert, NXT, and eNTEGRA* workstations. Xeleris supports eNTEGRA and Vision POWERstation Sony™ Optical Media (with optional read-only MOD Drive), providing access to valuable studies stored years ago.

DirectConnect (option)

The DirectConnect option allows customers of many popular gamma cameras to benefit from the processing and workflow excellence of Xeleris. This allows Xeleris 3 to receive raw data from non-GE cameras/workstations reliably in their own native formats.

DICOM Conformance

Xeleris 3 provides excellent connectivity tools allowing you to share Nuclear Medicine/PET and Hybrid images with PACS and DICOM-conformant systems, including full screen dynamic displays in Multiframe Secondary Capture format. See the Xeleris DICOM conformance statement for details.

IHE Workflow

Xeleris 3 implements the IHE scheduled workflow and nuclear medicine image integration profiles (as image display and evidence creator actors) and the access to radiology information integration profile (as image display actor). See the Xeleris IHE integration statement for details.

Remote Viewing

Xeleris can capture most images in PC compliant screen capture and movie formats (for easy drop in presentations, email or on the network).

Common User Interface

Xeleris utilizes a highly advanced graphical user interface, common to both the processing and review workstation as well as the acquisition console. This common user interface can help minimize the operators' learning curve and helps promote departmental productivity and efficiency by helping to enhance the operators' performance through ease-of-use.

Xeleris 3 Main Features

Clinical Library

Volumetrix* MI
A consolidated tomographic data viewing and processing package for SPECT and PET data processing with or without anatomical data (CT or MR), capable of Multi-SPECT sessions pasting, follow-up on multiple studies and input of anatomical oblique slices. Its Integrated SPECT reconstruction and correction algorithms include interactive selection of optimal image reconstruction parameters and Hybrid QC (ACQC) tools to help improve alignment of SPECT and CT data sets for accurate attenuation correction and localization.
- Inputs anatomical oblique slices and features on-the-fly oblique creation/manipulation
- Facilitates dual isotope and study follow-up reading and accepts multiple SPECT, PET, CT and MR datasets
- Supports standard uptake value (SUV) calculation and display mode for PET (LBM, BSA, & BW methods)
- Flexible and user customized layouts
- Auto Condense mode to automatically condense slices to fit on one screen for printing or filming
- Multiple fusion modes, including weighted fusion, which allows the user to shift between the contribution of the PET and CT image to the fused results
- CT and PET images retain resolution
- Fast CT scroll

Volumetrix MI includes the following packages:

MDC - Motion Detection and Correction (option)
- Automated cardiac and general purpose SPECT motion correction
- Sinogram and linogram images for QC analysis
- Tools for manual adjustment and correction

SPECT Options
- Adjustment of any of the reconstructions settings
- On-the-fly image correction setup including resolution recovery (option), attenuation and scatter.
- Filter selection with filter gallery review to determine the most effective filter and filter parameters. 2D Hanning, Metz, Butterworth, Hamming, and Wiener filters are available for FBP reconstruction. 3D Butterworth, Hanning and Gauss filters are available for OSEM reconstruction

QC for hybrid NM/CT studies

Enabling effective alignment of hybrid NM and CT data sets in order to minimize potential inter-study misalignments. Designed to help reduce the need for study retakes, it features:

- Automatic Hybrid QC (user overridden) of the NM FOV relative to Hybrid CT FOV
- Confirm or reject each FOV separately
- Correct or generate attenuation maps

Multi-FOV Pasting

- Automatic pasting (user overridden) up to seven FOV's (covering the whole body)
- Preview pasted volume on SPECT/CT (NM & fused available)

Registration

- Manual adjustment via shift/rotate
- Single landmark registration
- Regional registration
- Fusion & spots collection are supported on registered images

Auto accept or user intervention are allowed with any one of the above packages

Volumetrix Suite (option)

Optional software for Volumetrix MI that expands the review capabilities of GE Hawkeye 4 SPECT/CT and offers flexibility to the users of Discovery SPECT/CT and PET/CT systems, including:

Volumetrix 3D

Integrates 3D Fusion into nuclear medicine workflow, bringing together the benefits of advanced 3D visualization with productivity of traditional 2D image analysis.

- 3D VR of fused SPECT-CT, PET-CT or MR images
- NM segmentation tools to include or exclude portions of 3D rendered images, including removal of the table from the CT image and threshold based semi-automatic segmentation
- Clip & Cut Planes to integrate traditional Axial, Sagittal and Coronal slices simultaneously in to the 3D rendered objects

Volumetrix IR

Offers the clinician a choice of virtually any CT to be registered to NM or PET data in the NM workflow:

- Automatic rigid registration of CT to other CT or MR
- Manual adjustment via shift/rotate
- Full or Regional registration (fusion & collect supported)
- Auto accept or user intervention are allowed
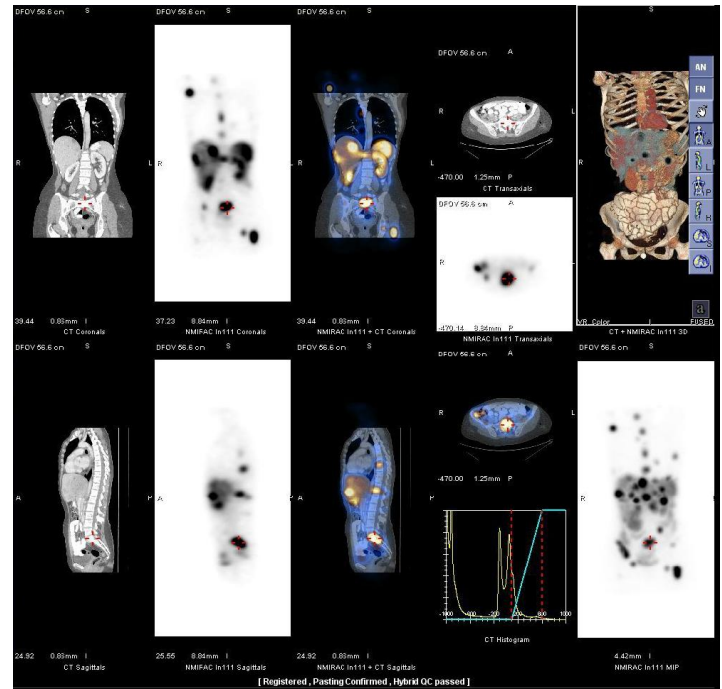
Volumetrix MI Review screen

Cardiology

Myovation

- Provides side-by-side reconstruction and auto reformat of cardiac SPECT, gated SPECT, and PET data including Sestamibi, Thallium, Tetrofosmin, Dual Isotope, FDG, and Rb-82
- Side-by-side review of up to six datasets including beating heart slices
- Comparative review of primary and secondary reconstructions
- Supports reformat of iterative reconstructed data
- Integrated Hawkeye, TAC and ACuscan processing
- Calculation of TID and lung heart ratio
- Polar Plots and Reversibility Polar Plots for Technetium
- Volume based ejection fraction for Tc99m MPI
- 3D Transaxial Post-Filter for both SPECT and PET
- Masking of transaxial and oblique slices
- Enhanced Quality control tools include:
  - Automatic and/or manual QC and Review screens snapshots collection for quick and easy review
  - Gated QC information for Stress and Rest studies including average HR, accepted\Rejected beats and R-R distribution
- Filtered back projection, iterative reconstruction w/scatter

correction and/or attenuation correction (where relevant data is provided)
- Four methods of SPECT motion correction are available:
  - Stasis (Standard), Hopkins -Cardiac Oriented (Standard), MDC-SPECT Motion Detection & Correction (Optional) and Cedars-Sinai Motion Correction (Optional)
- Well-suited cardiac review screen, including 3D, Polar Maps, four sets, five slices review, ED/ES review, beating slices, EF, side-by-side perfusion and beating gated review
- Synchronized gated slice beating
- Direct linkage with optional 3rd party packages
- Automatic gated and non-gated SPECT motion correction
- Clip normalization

Single CTAC (option)

Optional feature for Myovation that enables the use of single CTAC scan of same patient acquired by a Hawkeye or single stand alone CT for accurate attenuation correction of multiple SPECT scans, assuming patient position (including all movable organs) and body size are similar, yielding:

1. Enhanced image quality, compared to non-corrected image
2. Elimination of the need for acquisition of separate CT scans for AC of each SPECT study leading to simplification and potentially higher productivity
3. Minimized exposure to CT radiation by eliminating the need for acquisition of separate CT scans for AC of each SPECT study

Note: feature was validated using data from GE Healthcare NM and CT scanners.

First Pass and EF Analysis

- EF analysis with volume curve
- Left/right ventricle selection
- Auto/manual ROIs for systole and diastole
- Interactive beat selection
- Phase/Amplitude analysis
- Quality control review screen including transit times
- Supports list mode data from DS-Series cameras

Peak Filling Rate

The Peak Filling Rate protocol uses the EF Analysis results as input, which includes the left ventricle (LV) emptying index and determines several timing, ejection fraction and rate parameters, which provide additional information of the heart.

L-R Shunt

- Calculates the pulmonary to system flow ratio. Used to determine the existence and size of the inter-cardiac shunts
- Supports list mode data from DS-Series cameras

Cardiac Morphing (option)

- Delivers enhanced perfusion image quality for Gated SPECT data
- Overcomes non-uniform blurring of the myocardium due to cardiac motion, enhancing the visual clarity of the images
- Based on elastic summation of tomograms representing all bins in a cardiac cycle – rescaled to match end-diastolic LV size

Notes

1. Cardiac Morphing shall be performed on gated Rest-Stress data acquired at the standard full time or full dose
2. Processing of dual gated Rest-Stress study is likely to complete in approximately 5 minutes if processed using 64x64 image matrix or 20 minutes if processed using 128x128 image matrix.

Evolution for Cardiac* (option)

An OSEM resolution recovery reconstruction algorithm which models the collimator-detector response developed at John Hopkins University & UNC Chapel Hill. It improves cardiac SPECT resolution, signal to noise ratios, and noise variability. The package provides non-inferior image quality with up to 50% reduction in count density of Cardiac SPECT studies, enabling:

1. Imaging at ½ acquisition time (6 – 7.5 min) compared to standard MPI protocols, or
2. Imaging at ½ the dose compared to standard MPI protocols, or
3. Various combinations of 1 and 2.

MDC - Motion Detection and Correction (option)

- Automated cardiac and general purpose SPECT motion correction
- Sinogram and linogram images for QC analysis
- Tools for manual adjustment and correction

XT-ERNA (option)

An application used to analyze cardiac gated data to assess cardiac functionality. The application uses edge detection algorithms to generate the Left and Right Ventricle End Diastole and End Systole ROIs, from which it calculates Ejection Fraction, Peak-filling rate, Peak-emptying rate and other essential parameters.

Emory Cardiac Toolbox™

A comprehensive set of nuclear cardiology protocols for advanced cardiac analysis, including a variety of databases of normal patients for comparison covering various acquisition

protocols, including 1 and 2 day Sestamibi, Dual Isotope, Stress/Rest Tetrofosmin, Thallium, Myoview Pharmacologic Stress, and a 1 day Rest/Stress Tetrofosmin for GE Healthcare Discovery NM 530c and NM/CT 570c cameras.

Options available with the Emory Cardiac Toolbox software:

PERFEX™ (option)

Optional module that provides an automatically generated text interpretation of Cequal™ perfusion results.

Emory Nuclear Report Professional™ (option)

NRP™ is an optional module for generating reports.

Emory SyncTool™

Optional module, which enables assessment of LV asynchrony by phase analysis of Gated Single Photon Emission Computed Tomography (GSPECT) Myocardial Perfusion Imaging (MPI) studies. The LV asynchrony quantification is a feasible predictor of response to CRT (Cardiac Resynchronization Therapy) and its applicability in clinical settings.

PET database for ECToolbox™ (option)

Optional module that provides Rb-82 and NH3 databases, RB/FDG and SPECT/FDG mismatch tools.

Cedars Sinai Cardiac Packages (option)

A comprehensive set of nuclear cardiology protocols for advanced cardiac analysis, including:

Cedars Sinai Quantitative Perfusion SPECT™ (option)

Automatic 3-Dimensional software approach to quantitative Perfusion SPECT.

Cedars Sinai Quantitative Gated SPECT™ (option)

An application calculating the ejection fraction of the left ventricle and a 3D surface display is generated.

Cedars Sinai Quantitative Blood Pool GSPECT™ (option)

Application for the quantitative analysis of gated cardiac blood pool datasets computing volumes and ejection fractions.

Cedars Sinai MOCO™ Motion Correction for SPECT (option)

Optional module providing a fully automatic motion correction program for nuclear medicine SPECT imaging.

Cedars Sinai Automatic Report Generator (ARG) (option)

Optional module available for the QGS/QPS applications for generating reports.

Cedars Sinai Companion (option)

Optional module for QGS and QPS applications features

- 17 segment scores and templates in QPS
- Diastolic filling parameters in QGS
- Eccentricity ratio in QGS

Invia Corridor 4DM™ (option)

A comprehensive set of nuclear cardiology protocols for advanced cardiac analysis developed by Invia and the University of Michigan Medical Center in Ann Arbor, Michigan including 4DM-SPECT, 4DM-PET and 4DM-CT options.

4DM-SPECT (option)

A comprehensive cardiac SPECT display and quantification program for gated and ungated SPECT perfusion studies which includes its own report generation package.

4DM-CT Fusion (option)

Optional module available for the 4DM SPECT application allows CT and SPECT fusion viewing, CT reporting options and coronary calcium analyses. Coronary arteries display is not available.

4DM-PET (option)

A comprehensive cardiac display and quantification program for gated and ungated PET perfusion studies which includes its own report generation package.

Nephrology

Renal analysis

Tools for renal perfusion and function analysis and review which automatically identify the kidney ROIs, yet still allow adjustment via threshold, manual draw, and editing tools.

- Generate Renogram for diuretic and captopril acquisitions
- DTPA, MAG3 and LASIX renography
- DMSA Renal
- Pediatric kidney depth calculation
- Analysis methods include Gates GFR, QuantEM (Option), Modified Gates, Modified Schlegal
- Single Sample Clearance include Dubovsky (for Ortho Iodo hippuran and Tc99mMAG3) and Bubeck (Tc99m MAG3)
- Perfusion methods include Hilson, Peter, and Kirchner
- Relative uptake methods include Slope, Integral and Rutland slope methods
- Mean Parenchymal transit time
- Excretion index (20 min, 30 min, residual)
- Manchester method support

Renogram DMSA

- Relative and absolute function (%dose)
- Three methods of entry of dose (camera, well counter, and dose calibrator)
- Five methods of kidney depth estimation (manual, Reynaud, Taylor, Tonnensen, and conjugate view)

Bone

Volumetrix MI Evolution for Bone (option)

Optional iterative reconstruction with resolution recovery well-suited for Bone SPECT studies. The Evolution for Bone algorithm, which was developed at John Hopkins University & UNC Chapel Hill, models the collimator-detector response, improves Bone SPECT resolution, signal to noise ratios and reduces noise variability.
Use of the option enables:
1. Improved resolution of Bone SPECT studies acquired over standard acquisition time; or
2. Non-inferior image quality with up to 50% Reduction in count density, enabling:
   a. Imaging at ½ acquisition time (6 – 7.5 min) compared to standard Bone SPECT protocols; or
   b. Imaging at ½ the dose compared to standard Bone SPECT imaging protocols; or
   c. Various combinations of (a) and (b).
The Evolution for Bone reconstruction is an additional module for the Volumetrix MI application.

Whole Body and Bone Spots Review

- Review whole body and spot images
- Analysis of the perfusion and blood pool phases of three-phase or four-phase bone studies
- Dual zoom mode for spot generation from whole body images
- Predefined automatic layouts of whole body images/spots
- Regional masking
- ROI comparison based analysis
- Statistic and count display
- Sacroiliac ratio with manual or auto edge detection

Evolution for Planar Bone – ASM/NL (option)

An optional add-on feature to Whole Body and Spots Bone Review application. Evolution for Planar Bone includes a noise-reduction algorithm that preserves the finest structures in the image. Evolution for Planar Bone uses well-suited pixel size and optimal energy window settings. (Adaptive Structure Matching Non-Local Filter).

It enables non-inferior image quality with up to 50% reduction in count density compared to standard protocol, delivering any of the following:
- Improved WB planar image quality for the same scan time
- Shorter WB planar scan time while preserving image quality
- Reduced injected dose at the same scan time while preserving image quality.

Oncology & Infection

Evolution Toolkit (option)

A package enabling improved resolution and reduced noise for SPECT studies of Tc99m, I123, In111, Ga67 by the use of the Evolution reconstruction technique with resolution-recovery. Compared to standard FBP or iterative reconstruction, Evolution Toolkit can enable improved visual clarity.

Volumetrix MI for Oncology Evolution is well-suited for the processing and review of SPECT and SPECT-CT data of Ga67, In111 and I123 using iterative reconstruction technique with resolution-recovery. Evolution Toolkit includes Poisson and Angular re-sampling tools, which enable imaging simulation of various levels of count densities to test the impact of time or dose reduction on image quality.

Dosimetry Toolkit (option)**

Dosimetry Toolkit uses consecutive patient WB SPECT/CT and/or WB planar datasets for quantifying changes in radiopharmaceutical uptake over time and calculating residence time per organ for Radio-Isotope Therapy (RIT) treatment planning purposes.
The application results can be used as input for RIT planning applications such as OLINDA or similar.

The Dosimetry toolkit includes tools that can help the user to perform in a quick and convenient way the following tasks:
- Reconstruction of all SPECT/CT data, including accurate SPECT/CT registration and quality control, along with patient motion detection and correction, attenuation, scatter and collimator blurring corrections. Image reconstruction is performed using iterative algorithm (OSEM).
- Registrations of all scans to one common reference with semi-automatic/manual tools that enable the user to

perform local organ registration
- Segmentation of the different organs with semi-automatic/manual tools to differentiate between overlapping organs
- Create time activity curves for each of the organs
- Curve fitting
- Calculate imaging agent residence time in each organ
- Export results and all numerical values in format suitable for input to OLINDA or similar RIT planning applications

**Dosimetry Toolkit is only available with Discovery NM/CT 670 data and is available for sale only for selected countries.

Gastroenterology

Gall Bladder EF

Determines ejection fraction (EF) from a dynamic dataset. The EF is computed from the gallbladder and background ROIs on individual images, and can help reduce possible errors due to patient motion during the study.

Gastric Emptying

Determines the Gastric Emptying Curve as well as other parameters from up to 12 static images or from dynamic images in both posterior and anterior positions.

Esophageal Motility Analysis

- Provides analysis of esophageal dynamic studies via transit curves and compressed images
- Check the pass of a bolus along the esophagus in order to detect esophageal dismotility and obstruction
- Help visualize reflux of the stomach contents into the esophagus

Pulmonary System

Lung analysis

- Analysis of lung ventilation and perfusion spots lung studies
- Ventilation index and quantitative perfusion analysis including ratio
- Includes templates for lung segments visualization

Neurology

Brain SPECT

- Brain SPECT protocol includes automatic reconstruction and reformatting, 3D volume rendering, filter selection and filter gallery

- Motion correction algorithms, MDC (option) or Cedars-Sinai Motion Correction (MOCO option).
- Automated well-suited parameter selections including attenuation correction, filter type/values and reformat configuration for a variety of organs. Activated based on relevant clinical category: renal, bone, liver, oncology (gallium, indium), lungs and general purpose
- Comprehensive review of all slice planes, 3-plane spot collection and triangulation to show image interrelationships
- QC screen with sinogram and linogram analysis
- 3D masking definable at projection view as well as on reconstructed slices
- Filter selection with filter gallery review to determine the most effective filter and filter parameters. 2D Hanning, Metz, Butterworth, Hamming, and Wiener filters are available for FBP reconstruction. 3D Butterworth, Hanning and Gauss filters are available for OSEM reconstruction
- CBF Segmentation Protocol, including:
  - Trans-axial slice subdivided into equiangular sectors over 360 degrees
  - Brain oblique reformatting
  - OM line definition with external marker
  - Analysis of mean count, total count, maximum pixel value and standard deviation
  - Early/Late and Right/Left Mean ratios
  - Quality control of reconstructed data
  - Image slice comparisons
- Chang Attenuation Correction
  An approximate Attenuation correction based on simple calculation of the average attenuation for photons traveling from each point in the organ at different angles. Applicable to Brain SPECT scans under assumption of uniform attenuation across the entire brain tissue.

DaTQUANT* (option)

DaTQUANT application allows visual evaluation and quantification of Ioflupane (123I) images.
DaTQUANT advanced quantification may provide additional information that would not be revealed by visual reading alone.
DaTQUANT includes:
- Automated non-rigid registration with predefined Ioflupane (123I) template
- Fast Ioflupane (123I) SPECT image quantitative analysis: computation of uptake values in the striatum, striatal binding ratios, putamen/caudate ratios, and left/right asymmetry
- Repeatable and accurate analysis
- Easy and consistent reporting (PDF format) for referring physicians

Segami Mirage™ Neurology package (option)

A comprehensive set of neurology protocols for advanced neurology analysis:

NeuroGAM™ (option)

Optional advanced neurology package, including:
- Transformation to Talairach stereotaxic atlas
- Voxels comparison with HMPAO normal databases (UCLA)
- Anatomical inputs (MRI) option (from the NeuroMatch option)
- Functional quantification in 3D volumes of interest (VOIs)

ECD Normal Database (option)

Voxels comparison with ECD normal databases, an optional add-on feature to the NeuroGam application.

NeuroMatch™ (option)

Optional advanced neurology package, including:
- Fully automatic 3D co-registration of MRI/PET/SPECT
- Manual Co-Registration available
- Exact localization of metabolism/perfusion

Endocrinology

Thyroid uptake index

Computes thyroid uptake index from Tc99m and I123 static studies for either the entire thyroid per thyroid lobe, or by region (cold or hot spot)

Parathyroid imaging analysis

Analysis of parathyroid from dual isotope (Tc99m & Tl201) and dual phase MIBI studies.

General Processing Tools

Workspace

General application enabling manual processing and review of patient data, including:
- Customized review templates for screen layout and various display settings
- Creating and saving templates appropriate for various types of patient data. Once saved as Review Templates, these layouts can be applied to patient data of the same type for standardization and comparison purposes

- A full set of display tools is provided to manipulate the screen layouts
- An extensive set of image analysis tools
- Processing results can be saved, creating new datasets within the same series or within a new series
- Macro Record mode for the recording of operations and saving them as user applications

Dynamic Motion Correction (DMC)

Provides tools to manually and automatically correct motion introduced during dynamic acquisition

List Mode Re-framer (option)

- Optional package that enables post-acquisition re-framing of the acquired data into various frame-sizes, time-intervals, or energy windows by user defined scenarios.
- Turns the acquired list mode study into any of the multiple acquisition modes featured by the system, saving unnecessary acquisition time and preventing undesired repeat patient scan sessions
- Applicable for Discovery NM 530c and Discovery NM/CT 570c only

Display and analysis

- Single and multiple display of images, curves and ROIs
- Circular, elliptical, rectangular, irregular, or pixel intensity regions of interest are available
- Predefined display templates for easy image repositioning
- Operator control to display multi-frame data sets in user's choice of format
- Ability to use up to eight separate patient cards at one time for processing and display, dependant upon system resources available and utilized by each card
- Image manipulation (i.e., pan, zoom, flip, rotate) using icons or mouse control
- Image filtering [i.e., spatial convolution (9 or 25 point kernel, Gaussian), Fourier (Hanning, Butterworth, Metz or Winner), temporal convolution]
- 2D region-of-interest statistical analysis (total & average counts, ROI area, maximum & minimum counts, standard deviation)
- Cinematic display of dynamic / multi-frame dataset studies
- Synched cine
- Normalization of images to image set or image to itself
- Threshold and windowing control for current image or all displayed images including 2 methods of gamma control and CT windowing (using center and window)

- Saving of modified images for later display and analysis
- Text annotation: predefined annotation with interactive font size and color options
- Numerous color and monochrome map selections
- Scroll facility for multiple image displays
- Generate JPEG screen capture images and AVI cine for export
- Integrated web browser

Curves, Graphs, Image processing

- Time activity curve, histogram analysis and statistical analysis from ROIs. Curve parameters include max. and min., time to peak, T1/2, slope, FWHM, centroid
- Storage of curves/graphs for later recall and comparison
- Curve math functions for curve processing:
  - Add, subtract, multiply, divide: curve or constant
  - Normalized curve subtract
  - Curve filter: convolution, Hanning, Butterworth
  - Curve fit: linear, gamma variant, exponential
  - List curve points
- Image processing and math functions including:
  - Image fusion
  - Statistics in the image and within a defined ROI
  - Image filter: spatial and temporal convolution, Fourier
  - Copy, combine
  - Add, subtract, multiply, divide: image or constant
  - Reframe to a composite or multiframe dataset
  - Magnify/minify image
  - Normalize to maximum count value
  - Threshold above, below, or between a value
  - Mask inside/outside ROI
  - Vertical & horizontal activity profiles
  - Interactive control of location and size

Xeleris 3 essential configuration

The Xeleris 3 essential configuration supports the following applications providing a simplified platform for the processing and review of nuclear medicine procedures.
- General SPECT
- Myovation
- First Pass
- EF Analysis
- Peak Filling Rate
- L-R Shunt
- Renal Analysis
- Renogram DMSA
- Whole Body and Bone Spots Review
- Gall bladder EF
- Gastric Emptying
- Esophageal Motility Analysis
- Lung Analysis

- Brain SPECT
- Thyroid uptake analysis
- Parathyroid imaging analysis
- Dynamic Motion Correction
- Workspace
- Launch2
- Aladdin
- 3D Filtering
- Color Map Creator
- Flood Uniformity
- COR test

The following applications are available as optional enhancements to the Xeleris 3 essential configuration
- MDC Motion Detection and Correction
- Evolution for Cardiac
- Emory Cardiac Toolbox™
- QuantEM™
- General SPECT Evolution for Bone
- Evolution for Planar Bone
- DICOM CD Viewer
- Multi-Media Creator
- Dual Monitor

Essential configuration does not support XFL Server-Client configuration.

General SPECT application (Essential configuration only)

The General SPECT application inherits the Volumetrix MI functionality allowing tomographic NM data viewing and processing. The integrated SPECT reconstruction and correction algorithms include interactive selection of optimal image reconstruction parameters. The application supports MDC (Motion Detection and Correction) as an optional package.
General SPECT is different from Volumetrix MI in that it does not support the following:
- Anatomical (CT or MR) or PET data (only NM data is allowed)
- Multi-FOV SPECT pasting
- Volumetrix IR and Volumetrix 3D options

General SPECT Evolution* Bone
The Evolution for Bone reconstruction is an additional module to the General SPECT application.
Use of the option enables:
1. Improved resolution of Bone SPECT studies acquired over standard acquisition time; or
2. Non-inferior image quality with up to 50% Reduction in count density, enabling:
   a. Imaging at ½ acquisition time compared to standard Bone SPECT protocols; or

b. Imaging at ½ the dose compared to standard Bone SPECT imaging protocols; or
c. Various combinations of (a) and (b).

Molecular Breast Imaging Discovery 750b

Xeleris 3 for MBI (Discovery 750b) configuration shares the same basic functionality of the Xeleris 3 platform optimized to Molecular Breast Imaging (MBI). The Xeleris 3 for MBI (Discovery 750b) supports the following applications to provide simplified processing and review of molecular breast imaging exams:
- MBI Viewer
- Workspace
- Aladdin

The following applications are available as optional enhancements to the Xeleris 3 MBI configuration
- DICOM CD Viewer
- Multi-Media Creator
- Dual Monitor

MBI Viewer application

Xeleris 3 for MBI includes the MBI Viewer application enabling:
1. Display of MBI images in customizable formats
2. Dynamic display of MBI Images
3. Reformat of Dynamic MBI Images
4. Registered top and bottom image display

In addition to the MBI viewer, general application enabling manual processing and review of MBI patient data is supported, including:
1. Customized review templates for screen layout and various display settings
2. Creating and saving templates appropriate for various types of patient data. Once saved as Review Templates, these layouts can be applied to patient data of the same type for standardization and comparison purposes
3. A full set of display tools is provided to manipulate the screen layouts
4. An extensive set of image analysis tools
5. Processing results can be saved, creating new datasets within the same series or within a new series
6. Customized Aladdin programming - Visual Basic® based user protocol development environment including protocol development tools, navigation editor, menu editor and results load/save

Customization

Applications customization

- Create a user defined list of favorite applications quickly accessible through a single tab
- Allows different customization sets for the same application
- Save defaults from within most applications
- Standardized annotation templates
- User-customizable review templates may be created for each study type

Color map customization

- Create user-defined color map
- Allow the definition or the default color maps

Customized Security tools

Tools to assist privacy measures compliance.
- Individual user accounts
- Account strength and policies
- Audit logging
- Virus protection software
- Configuration lockdown
- De-identify capabilities
- Non-admin user privileges required

Launch Two

Invoke two Xeleris applications simultaneously:
- Same patient data with two different applications.
- Two instances of the same application with two different studies of the same patient for follow-up purposes.

The applications are invoked as if the user manually invoked them in a sequence.

Customized Aladdin* programming

Visual Basic® based user protocol development environment including protocol development tools, navigation editor, menu editor and results load/save.
Aladdin user-created protocols have not been validated by GE. Those who wish to create and use such protocols on Xeleris should verify their accuracy (including both display and quantitative results) before doing so. Key features include:
- Creation of protocols by recording actions on the processing card (record mode)
- Protocol text editor and syntax checker
- Protocol debugger including: syntax check, breakpoints, single step, parameter watch windows
- Full set of nuclear function calls added to a Visual Basic® like foundation

- Image and curve processing using standard Xeleris tools ROI, display, database access functions
- Compatible with most eNTEGRA / GENIE P&R user Aladdin software
- Protocols have same philosophy as rest of Xeleris user interface providing the ability to incorporate all standard Xeleris tools, including reconstruction and reformatting
- On-line help text with examples for most functions
- Interactive development of programs: running, editing, testing, debugging
- Custom definition of user interface: menus, tabs and buttons
- Review template editor (RTE) to define display screen layouts
- Shortcut toolbar
- Split screen: program code and display screen
- Interface to Xeleris patient database
- Perform customized processing of data files (compression of avi files, reframing data to different frame size, etc.)
- Aladdin advanced programming training available

Flexibility

- Integrated user interface for data archive/retrieval, image data deletion, filming/hard copy and data transfer
- Simultaneous operation of display, analysis, archive, network, filming and reconstruction
- Flexible user configuration and customization
- Print templates allow the user to setup commonly used printers or file formats and print header layouts
- Multiple print headers can be defined, controlling the location and content of textual information including hospital name, hospital logo, and various data attributes
- Concurrent access to data allows the same patient study to be accessed from multiple Xeleris units simultaneously
- Merge series from different studies into a single one in case of split studies
- Easily correct errors entered when typing patient name, study name, and series name during acquisition of Nuclear Medicine, CT, MR, and PET data (not including results series)
- Easily change NM datasets names (excluding results series)

Operate Xeleris with Native Language

Xeleris user interface (UI) is available translated to native languages other than English for improved customer convenience.

Integration and Access

Connectivity & networking

CD DICOM Viewer (option)

An add-on option to Xeleris. Burn DICOM files with a DICOM Viewer on a CD/DVD media for a referring physician, features:
- Diagnostic viewing functionalities of DICOM compliant NM, Hybrid SPECT/CT and Hybrid PET/CT data recorded on a CD/DVD
- 3D MIP display and triangulation to 2D images
- Synchronized triangulation between SPECT-CT and PET-CT images for optimum localization
- SPECT-CT and PET-CT fusion with blending tools
- Predefined layouts for optimum SPECT-CT and PET-CT display
- Oblique reformatting
- Easy to use
- Fast to load (pending hardware performance)
- Operates on Windows 2000, XP, Vista and Windows 7

Multimedia Creator (option)

An option which allows the report pages of any Xeleris application (and several 3rd parties) to be exported in a dynamic, portable format for distribution via email, CD, and network without requiring the loading of a viewer. Minimal requirements for the viewing PC apply.

Xeleris Floating License (XFL) (option)
XFL Remote - WAN (option)

Xeleris allows the user to load Xeleris client software across the network (over the LAN and WAN) in a Server-client configuration where the client can be any windows based PC that meets minimal hardware requirements.** XFL enables the use of most Xeleris applications on the client remote PC (based on floating license availability on the Xeleris 3), see Supported Application Table below.
Notes:
1. Some data may require more than 2GB RAM to be used with XFL. For PET-CT and SPECT-CT 2GB RAM is the minimum and 4GB RAM is recommended
2. Performance may vary based on PC and network characteristics, data loaded, and other SW running concurrently
3. The XFL Software may not function properly in cases of conflicts with other software installed on the PC
4. Studies should be read on monitors that comply with the SMPTE and BWH standards
5. Only Xeleris 3 P&R running on HP4600, HP Z400 or newer desktop can function as XFL server

6. XFL software can only be installed on Windows XP OS with Service Pack 3, and Windows 7 32 Bit with Service Pack1.

**Intel Based CPU computer, 2GB RAM, Intel multi-Core or Xeon® hyper threaded CPU (equivalent or better), minimum 500MB free disk space for XFL LAN client connected via at least 100BaseT LAN to a Xeleris 3 PC and 10GB free disk space for XFL WAN client, IE6.0.

OpenGL version 2.0 or higher is required for Volumetrix 3D. Acrobat Reader is required for viewing user guide documentation. Any candidate client must be tested with XFLCheckSystem tool for compatibility of other restrictions, such as font size and screen resolution.

Xeleris Suite Package for Centricity RA1000 (option)

Integrating the diagnostic power of Xeleris Nuclear Medicine clinical applications with the PACS functionality of Centricity RA1000 workstation

- Provides a single Functional imaging and radiology workstation environment by running a single departmental-shared worklist for Radiologists and Nuclear Medicine practitioners
- Enables seamless launch of Xeleris applications by up to 5 concurrent users simply by opening the patient study, while making other relevant radiology exams immediately available for inclusive multi-modality patient review
- Eliminates the need for multiple workstations
- Xeleris Suite clients must meet XFL clients minimum specifications

NM and PET DICOM 3.0 Support

- DICOM 3.0 support for Nuclear Medicine and PET image and secondary capture image storage and query/retrieve as an SCU and SCP
- Provides the ability to query/retrieve or receive DICOM 3.0 Nuclear Medicine Image data or secondary capture image data from GE Nuclear Medicine and PET-CT scanners, GENIE Acquisition, VG Acquisition, GENIE P&R, XpertPro, Vision FX 40/80, Vision POWERstation or other valid DICOM compatible systems
- Xeleris clinical applications are validated with data from GE NM, Discovery PET/CT 690, Discovery PET/CT 600, Discovery LS and Discovery ST scanners

CT/MR DICOM support

Provides support for DICOM 3.0 CT and MR Image data storage as a SCP and SCU.

- Receive and send DICOM 3.0 CT/MR data from compatible CT, MR or PACS systems
- CT or MR data converted into Xeleris database format

- Send DICOM 3.0 Nuclear Medicine Image data or secondary capture image data to PACS or other valid DICOM compatible systems.
- Refer to Xeleris conformance statement

IHE compatibility

Implements the components necessary for compliance with the Scheduled Workflow profile, IHE nuclear medicine image profile, Portable Data for Imaging profile and Radiation Exposure Monitoring profile, including:

- Scheduled workflow as evidence creator and image display actors
- DICOM storage commit (as SCU) provides ability to automatically mark as archived data stored on PACS (requires PACS support of Storage Commit as SCP)
- Compliance with the nuclear medicine image profile as evidence creator including the result screen export option and image display including the MPR option, general nuclear medicine, and Cardiac nuclear medicine options
- DICOM Multiframe secondary capture (BW and Color)
- Use of DICOM acquisition context tags to identify cardiac data sets
- Synched Cine support
- Compliance with Portable Data for Imaging profile as PDI Exporter and Importer actors
- Compliance with Radiation Exposure Monitoring profile as dose consumer actor, able to receive and send dose reports.

DICOM part 10, import and export

- Exchange of DICOM data via various electronic formats (CD, FTP, etc.)
- Run Xeleris applications on DICOM P10 files by enabling:
  1. Direct data access from the archived media without the need to import it to the local database first
  2. Sharing multiple data sources, providing virtually unlimited archiving space for processing and review

Most Xeleris applications can operate directly on DICOM P10 files, see Supported Application Table list of applications for XFL-Remote (WAN).

Remote access for iLinq* support, InSite* and data transfer (option)

GE's remote serviceability features supported via Broadband connection.

TVA – TiP* Virtual Assist (option)

A secure and flexible way to receive training and applications support via iLinq Broadband connections. Allows the Xeleris user to share the display and control of their workstation with a remote GE Applications Specialist.

Legacy system STP connectivity protocol

Sopha Transfer Protocol release 3.0 allows either the DS Camera with XT 3.0 acquisition software or NXT systems to send data to the Xeleris. The Xeleris can also query and fetch data from either the DS or NXT systems.

Legacy system OSI connectivity (option)

Software option for OSI protocol to provide GE Starlink 4.0 and APEXnet connectivity. Allows either the STARCAM family or APEX SP family of systems to send data to the Xeleris. The Xeleris can also query and fetch data from either the STARCAM or APEX family of systems.

Legacy system Vision connectivity protocol

Also allows direct transfer of raw data from Summit nuclear 1024R, 1024C, 1024RZ, T22 and SMV analog and digital acquisition stations to the Xeleris for processing and review.

Remote file transfer

Provides a simple user interface to import or export Interfile and/or DICOM Part 10 files via the local network. Modem is no longer supported.

ICANL/ACR compliance

Supports special layouts to meet ICANL/ACR requirements for accreditation (excluding patient orientation in Planar and Dynamic scans).

Image file translation with network connectivity from Pegasys workstation (option)

Software option, which allows an existing Pegasys workstation to transfer images to Xeleris for processing and review.
- One way file transfer from Pegasys to Xeleris
- Unprocessed Nuclear Medicine studies only
- Further restrictions may apply to the types of data and hardware compatible with this option

Image file translation with network connectivity from Icon workstation (option)

Software option, which allows an existing Icon workstation to transfer images to Xeleris for processing and review.
- One way file transfer from Icon to Xeleris (data cannot be sent back)
- Unprocessed Nuclear Medicine studies only
- Further restrictions may apply to the types of data and hardware compatible with this option.

Image file translation with network connectivity from Odyssey workstation (option)

Software option, which allows an existing Odyssey workstation to transfer images to Xeleris for processing and review.
- One way file transfer from Odyssey to Xeleris (data cannot be sent back)
- Unprocessed Nuclear Medicine studies only
- Further restrictions may apply to the types of data and hardware compatible with this option

Film/hardcopy

- Queued digital filming and digital hard copy
- Support for DICOM 3.0 basic grayscale and color print management as an SCU (see conformance statement)
- Standard postscript level 2 printer support via TCP/IP Ethernet interface
- DASM LCAM printers are no longer supported

Archiving

Local DB size is 100GB of clinical data available online for processing & review

Re-writeable combo CD-ROM drive with DVD reader

Allows user to archive nuclear medicine, PET, CT and MR on CD in DICOM Part 10 format

Desktop Options

DVD-RAM drive (option)

Archiving of patient data on DVD-RAM without change in archived data characteristics, functionality or intended use. The DVD archiving is performed through standard Windows tools, increasing data storage versatility
- Read and write support of DVD-RAM format
- 4.0 GB per side; double-sided capacity for DVD-RAM

Extended database (option)

Extend the Xeleris database with additional 700GB of data space enabling:
- 8 times more than the standard database size
- Logical partition to up to 5 different local databases
- Connectivity to other stations is standard (some limitations may apply with previous Xeleris versions)
- Does not require additional HW

Option available only on HPZ400 hardware.

Note: the extended database does not replace other archive solutions and it is recommended to frequently backup any data.

System Components

The Xeleris 3 workstation consists of:

- High-performance Intel based computer with high resolution color monitor, keyboard, mouse and CD-RW/DVD-RW multi drive
- Windows™ XP operating system
- "Xeleris" or "Xeleris View" application software
- 100 GB internal disk capacity for on-line image/data storage (Desktop configuration).
- Ethernet network connection (10/100/1000 Base T)
- On-line documentation via hyper linked PDF documents.
- 19" LCD color monitor or 22" wide-screen LCD color monitor
- Keyboard and operator manual are available in various languages
- Refer to the detailed specifications below.

Standard Selectable Items

- Standard CD-RW/DVD-RW device
- CD-RW, DVD+/- R/RW archiving (laptop and desktop configurations) standard
- Language kits available in multiple languages

Options

- Optional read-only erasable optical disk archiving (available for desktop configuration only)
- Optional writeable DVD-RAM archiving (available for desktop configuration only)
- Optional laser filming and/or color hardcopy
- Optional dual monitor configuration available for desktop and XFL configurations, enabling:
  1. Viewing of two full cards side by side for enhanced compare mode
  2. Viewing of patient browser on the left screen while running applications on the right
  3. Viewing more images in dual screen well-suited layouts in Myovation, Volumetrix MI, and Workspace that utilize the 2 monitors

Siting requirements

- Storage temperature: -40° to 140°F (-40° to 60° C)
- Storage humidity: 8% to 90% RH, non condensing

- Storage altitude: 30,000 ft (0 to 9,144m)
- 22" Wide Screen LCD Display monitor dimensions (with height adjustable stand): (W×H×D) 20.5 × 18.18 × 7.25" (51.1 × 46.2 × 18.4 cm)
- 22" Wide Screen Monitor weight: 21.7 lbs (9.85 kg)
- Keyboard Dimensions: (W×D×H) 18.3 × 6.3 × 1.4 inches (46.48 × 16 × 3.56cm)
- Minimum table/desk top space : 28 × 27" (71.0 × 68.6 cm)

Consult your GE representative for complete site planning information.

Power Requirements

- Input voltage: 100 to 127V VAC and 200 to 240VAC and 118VAC
- Over 50Hz to 60Hz
- Rated input current: 10A@100-127 VAC, 6A@200- 240 VAC, 10A@118 VAC
- Maximum rated power: 475 watt custom power supply – (Wide Ranging, Active PFC)

Environment

- Operating temperature: 40° to 95° F (5° to 35° C)
- Operating humidity: 8% to 85% RH, non condensing
- Operating altitude: 10,000 ft (0 to 3,048m)

Warranty

Please contact your sales representative for warranty information.

Regulatory Compliance

Xeleris is installed on a certified NRTL (UL, CSA) computer that complies with all relevant safety and EMC industry standards.
Xeleris is CE marked and complies with European CE marking regulation following Medical Devices Directive 93/42/EEC.
GE Healthcare has been certified ISO-9001(2000) & ISO-13485(2003). All third party trademarks are the property of their respective owners.

Xeleris System specifications

Component	Base desktop system
Box	Tower PC (convertible mini-tower chassis)
Processor	Intel® Xeon® Quad core Processor - 8MB level 3
Memory	4GB Triple-channel 2x2GB DDR3-1333 ECC Memory
Architecture	Intel X58 chipset with 133 MHz front side
OS	Windows® XP Pro for Embedded Systems - SP3
Virus Protection	Virus protection
Hard Disk	RAID 0 2x500GB SATA II Hard Drive
Data base capacity	100GB or 10000 studies (whichever comes first)
CD/DVD	CD-RW / DVD-RW Multi
Display	22" Wide Screen LCD Monitor 1680x1050 resolution
Graphics	NVIDIA Quadro NVS 295 (PCI-E) w/ 256MB video Memory
Mouse	USB scroll optical mouse
KB	Standard US USB Keyboard
Audio	O/B Realtek HD Audio
Wired Network	Integrated Ethernet
Power supply/ battery	Auto sensing power supply Isolation transformer (optional)
Power Cord	American US
Optional power cords	Japanese PSE, Chinese CCC, European UK, European UL,
Dimensions	(HxDxW) 17.7 x 17.9 x 6.6 inches (45 x 45.6 x 16.8 cm)
Weight	15.1 kg (33.3 lbs)

Supported Applications and Functionality

Application\Feature	Workstation	XFL	XFL-Remote
General Tomography			
Volumetrix MI	+	+	+
Volumetrix 3D	+	+	+
Volumetrix IR[‡]	+		
Workspace	+	+	+
Cardiac			
Myovation	+	+	+
Myovation Evolution (Evolution for Cardiac)[‡]	+	+	+
Cardiac Morphing[‡]	+	+	
Emory Cardiac Toolbox	+	+	+
ECTB – PerfEx	+	+	+
ECTB – SyncTool	+	+	+
ECTB – NRP	+	+	
ECTB – Heart Fusion	+	+	+
Corridor-4DM packages	+	+	
Cedars QGS, QPS and Companion	+	+	+
Blood Pool Gated SPECT	+		
Cedars MOCO and ARG	+		
EF Analysis	+	+	
First Pass	+	+	
L-R Shunt	+	+	
Peak Filling Rate	+	+	
XT-ERNA	+		
AdreView* Planar	+	+	+
List Mode Re-framer (Discovery 530/570 only)	+		
Renal			
Renal Analysis	+	+	+
QuantEM	+		
DMSA	+	+	+
Bone			
WB & Spots Bone Review	+	+	+
Evolution for Planar Bone	+	+	+
Volumetrix MI Evolution for Bone[‡]	+	+	+
Oncology & Infection			
WB & Spots Oncology Review	+	+	+
Evolution Toolkit[‡]	+	+	

Application\Feature	Workstation	XFL	XFL-Remote
Dosimetry Toolkit[‡]	+		
Gastrointestinal			
Gallbladder EF	+	+	+
Gastric Emptying	+	+	+
Esophageal Motility Analysis	+	+	
Pulmonary			
Lung Analysis	+	+	+
Brain			
Brain SPECT	+	+	+
NeuroGAM	+	+	
NeuroMatch	+	+	
DaTQUANT	+	+	+
Miscellaneous			
Motion Detection and Correction (MDC)[‡]	+	+	+
Dynamic Motion Correction	+	+	
Thyroid Uptake Index	+	+	+
Parathyroid Imaging	+	+	+
Poisson Resampling (Evolution Toolkit)[‡]	+	+	+
Angular Resampling (Evolution Toolkit)[‡]	+	+	+
ROI comparative Analysis	+	+	
Launch Two	+	+	
3D Filtering	+	+	
Extract Tool	+	+	
WMV Encoder	+	+	
Color Map Creator	+	+	
Aladdin Editor	+	+	
Flood Uniformity	+		
Hawkeye Registration QC	+		
COR Test	+		
SPECT-CT Registration QC	+		
Other			
CD\DVD DICOM Viewer	+		
Multi Media Creator (MMC)	+	+	+
Dual Monitor	+	+	+

‡Not supported by Xeleris View
No SPECT reconstruction of any type may be performed on Xeleris View

Xeleris View configuration does not support XFL Server-Client configuration.

Xeleris Suite provides concurrent client access to all applications supported on XFL

About GE Healthcare

GE Healthcare provides transformational medical technologies and services that are shaping a new age of patient care. Our broad expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, biopharmaceutical manufacturing technologies, performance improvement and performance solutions services help our customers to deliver better care to more people around the world at a lower cost. In addition, we partner with healthcare leaders, striving to leverage the global policy change necessary to implement a successful shift to sustainable healthcare systems.

Our "healthymagination" vision for the future invites the world to join us on our journey as we continuously develop innovations focused on reducing costs, increasing access and improving quality around the world. Headquartered in the United Kingdom, GE Healthcare is a unit of General Electric Company (NYSE: GE). Worldwide, GE Healthcare employees are committed to serving healthcare professionals and their patients in more than 100 countries. For more information about GE Healthcare, visit our website at www.gehealthcare.com.

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

AECOM

Description: Dose Calibrator, w/ Well Counter

Manufacturer: Capintec, Inc.   ((201) 825-9500)

Vendor: Capintec, Inc.   ((201) 825-9500)

Model: CRC-55tW

Dose Calibrator with Well Counter. Features 8" VGA touch screen color display, USB/PC communications, 28 programmable nuclide keys, built-in dose calibration, over 80 nuclides in memory, automatic chamber QC including linearity. Well counter for wipe and lab tests (Schillings, Plasma, and RBC volume), 256 channel MCA with detailed spectrum, automated well QC including Chi-Square and MDA, manual and automatic ROI. Automated linearity and geometry testing.

General Product Detail

Arch Sig:	No	**Spatially Sig:**	No
Arch Code:	2 - Movable, Elect	**ADA:**	No
Custom Code:	Unassigned	**Antimicrobial:**	No
Furnish Install: O/O	**Type:** Medical	**Green:**	No

Physical Requirements

Width:	9.00 in (229 mm)	**Left:**	N/A
Depth:	10.50 in (267 mm)	**Right:**	N/A
Height:	9.50 in (241 mm)	**Front:**	N/A
Max Weight:	53 lbs (24.0 kg)	**Back:**	N/A
Mounting:	Counter/Cart/Table/Pole	**Top:**	N/A
		Bottom:	N/A

Electrical Requirements

Volts:	120	**Watts:**	12
Hz:	60	**Amps:**	<1
Phase:	Single	**BTU/hr:**	N/A
KVA:		**Ded. Circuit:**	No
Emer. Power:	No	**Plug Type:**	Type B (NEMA 5-15)

Utility and Technology Requirements

Water - Cold:	No	**Gasses:**	No
Water - Hot:	No	**Drain:**	No
Water - Treated:	No	**Steam:**	No
Vent:	No	**Vacuum - Dental:**	No
Tech Connect:	Yes	**Vacuum - Medical:**	No

Structural Requirements

Seismic:	No	**Pre-approval:**

Product and Project Item Notes

Specification:
Dimensions specified are for Console only. System also includes Chamber (6.76in. diameter x 17.25in.H/30 lb) and Well Counter (6in. diameter x 9.4in.H/ 15.2 lb).
Weight reflects all components.
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B165	Hot Lab	Project	Draft (New)	1	123114 meeting notes - Dose calibrator 6429-005 to be on 3440-026 011915 admendment to 123114 meeting notes - Dose calibrator 6429-005 to be on 3490-026 020415 meeting notes 0 Move 6429-005 to 3490-008 per Sarah H email - The notes within the meeting minutes should state 6429-005 to be located on 3490-026. 3722-002 is correct to be located on 3490-008

	Total:	1

CRC®-55tW
DOSE CALIBRATOR

BEST OF BOTH WORLDS
An integration of the CRC®55tR Dose Calibrator and Well Counter with chamber plug-n-play capability

PRECISION
Ion chamber is capable of measuring a dose as high as 6 Ci (250 GBq) with high accuracy

USER-DEFINED COUNTING PROTOCOLS
Allows the user to define specific counting procedures (protocols) with trigger levels for work, patient, unrestricted areas and sealed source leak tests

DETAILED SPECTRUM ANALYSIS
256 channel MCA which provides detailed spectrum for identification and analysis

CRC®-55tW Dose Calibrator- Item #5130-2216

SPECIFICATIONS

Well Detector
- Type: Sodium Iodide (NaI) drilled-well crystal detector
- 256 Channel MCA, manual and automatic ROI
- Warning Trigger Levels: User-definable
- Tests: Daily test, energy calibration, and reproducibility
- Enhanced QC includes Chi-Square and MDA

Ionization Chamber
- Fill Gas: 12 atm Ultra Pure Argon
- Measurement: Auto ranging
- Activity Range: Up to 6 Ci (250 GBq)
- Resolution: .001 MBq (.01 µCi)
- Response Time: Within 2 sec., for low activity sample, 4 to 16 sec. (user selectable)
- Tests: Daily tests include Auto Zero, Background Adjustment, Voltage Test, Data Check, Accuracy and Constancy
- Enhanced QC includes linearity, geometry, strip QC

Display Screen
- Type: 8" VGA LCD color touch screen display
- Bq/Ci Reading: User selectable or fixed
- Activity Display: Selected radionuclide, calibration number, measured activity and display units (Bq/Ci)
- Count Rate Values: Wipe and lab test results

Standard Source Data
- System Memory: Co-57, Co-60, Ba-133, Cs-137

Repeatability of Measurement
- Within ±1% within 24 hours, during which time calibration is powered at all times

Electrometer
- Accuracy: Better than ± 2%
- Linearity: Within ± 2%

Molybdenum-99 Assay
- Methods: Canister or CAPMAC

- Measured Values: Mo-99 elution, Tc-99m, Tc-99m/Mo-99 Ratio

Nuclide Data
- Nuclide Setting Keys: 28 programmable keys
- System Memory: Over 80 nuclides (cal number and half-life)
- A pre-set key measures up to 2.0 Ci (74.0 GBq) of F-18

PC Port
- Interface: RS-232 and USB
- Compatibility: Standard nuclear medicine management systems

Printer (Optional)
- Type: Epson Roll, Epson Slip or Okidata full size dot matrix or USB PCL compliant non-host based
- Printing Options: Full size test report or measured results on a ticket

Power Requirements
- 100-240 VAC (50/60 Hz) 100 MA

Tests
- Diagnostics: Full test of program, system memories

Cable
- Printer (Optional): 1.8m (6ft)
- Power: 1.8m (6 ft)

Console Dimensions
- Height: 42cm (9.5in) x Width: 23cm (9.0in) x Length: 27cm (10.5in)
- Weight: 3.4kg (7.5lb)

Chamber Dimensions
- Height: 43.8cm (17.25in) x Diameter: 17.2cm (6.76in)
- Weight: 13.6kg (30lb) x Well Diameter: 6.1cm (2.4in) x Well Depth: 25.4cm (10.0in)
- Cable Length: 3.7m (12ft)- Longer cables are available. Consult factory.

Well Counter Dimensions
- Height: 23.8cm (9.38in.) x Diameter: 15.2cm (6in.)
- Weight: 6.9kg (15.2lb.)
- Well Diameter: 1.7cm (.67in.) x Well Depth: 3.8cm (1.5in.)
- Cable Length: 2.7m (9ft.)

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID:	6493-001
Alt ID:	

Description: Rack, Unit Dose Pig, Wall

Manufacturer: Biodex Medical Systems, Inc.	((800) 224-6339)	**Mfr #:**	008-400
Vendor: Biodex Medical Systems, Inc.	((800) 224-6339)	**Vendor #:**	008-400
Model: 008-400 Wall Rack		**CAD ID:**	RCK0180
		Item ID:	

Wall rack to hold up to 25 unit dose pigs. Holds pigs up to 2.25" diameter.

General Product Detail

Arch Sig:	Yes	**Spatially Sig:**	No
Arch Code:	1 - Fixed	**ADA:**	No
Custom Code:	Unassigned	**Antimicrobial:**	No
Furnish Install: O/O	**Type:** Medical	**Green:**	No

Physical Requirements

Width:	17.00 in (432 mm)	**Left:**	N/A
Depth:	7.00 in (178 mm)	**Right:**	N/A
Height:	18.00 in (457 mm)	**Front:**	N/A
Max Weight:	10 lbs (4.5 kg)	**Back:**	N/A
Mounting:	Wall	**Top:**	N/A
		Bottom:	N/A

Electrical Requirements

Volts:	N/A	**Watts:**	N/A
Hz:	N/A	**Amps:**	N/A
Phase:	N/A	**BTU/hr:**	N/A
KVA:	N/A	**Ded. Circuit:**	No
Emer. Power:	No	**Plug Type:**	N/A

Utility and Technology Requirements

Water - Cold:	No	**Gasses:**	No
Water - Hot:	No	**Drain:**	No
Water - Treated:	No	**Steam:**	No
Vent:	No	**Vacuum - Dental:**	No
Tech Connect:	No	**Vacuum - Medical:**	No

Structural Requirements

Seismic:	Yes	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B165	Hot Lab	Project	Draft (New)	1	per notes - pig rack - 24 x 24 lead lined - wall mtd, add steel tubes / blo dying (?unreadable?)
				Total:	1	

SHIELDED SYRINGE HOLDER

Accommodates shielded and unshielded syringes

For added protection, store loaded syringes in the Shielded Syringe Holder

This Shielded Syringe Holder will accommodate unshielded syringes and syringes in a syringe shield.

The Syringe Holder is constructed of lead shielding, encased in steel. The shielding tapers from .25" - .5" lead. The large diameter base ensures stability.

SPECIFICATIONS:
Dimensions: 6.5" h (16.5 cm)
 I.D.: .84" dia. x 5.6 h (2.1 x 14.3 cm)
Lead Shielding: .25" - .5" thick (.64 cm - 1.3 cm)
Accommodates Syringe Shields:
 Pro-Tec II: 1 cc, 3 cc, 5 cc
 Pro-Tec III: 1 cc, 3 cc, 5 cc
 Pro-Tec IV: 1 cc
Weight: 6 lb (2.7 kg)

009-205 Syringe Holder, Shielded

UNIT DOSE PIG WALL RACK

Improve lab safety, efficiency and organization with the new Unit Dose Pig Wall Rack.

The wall rack improves work space with its pigeonhole design and reduces unnecessary handling. Unit doses can be identified at a glance. The rack's sturdy construction will hold up to 25 unit dose pigs.

Holds pigs up to 2.25" diameter.

SPECIFICATIONS:
Dimensions: 17" w x 18" h (43.2 x 45.7 cm)

008-400 Wall Rack, Unit Dose Pig

SYRINGE SHIELD HOLDER

Protect your investment

Don't let your syringe shields roll around on the counter. The Syringe Shield Holder offers a means of protecting syringe shields from scratches or misplacement while freeing up extra work space. The Syringe Shield Holder will support up to eight shields and is counterbalanced to prevent tipping. Know exactly where syringe shields are when you need them.

SPECIFICATIONS:
Dimensions: 7.5" w x 4" depth x 6" h (19 x 10.2 x 15.2 cm)
Weight: 5 lb (2.3 kg)

007-999 Syringe Shield Holder

SYRINGE RECAPPER

Syringe recapping device

Don't put yourself at risk with an accidental needle stick! The Syringe Recapper is a safe and inexpensive way to protect yourself when recapping a used syringe. Used either hand-held or placed on a flat surface, such as a procedure tray, the Recapper is made of a lightweight plastic that is easily carried anywhere.

008-300 Syringe Recapper
 3.25" l x 2.75" w (8.3 x 7 cm)

To order, call Biodex toll free...
1-800-224-6339
Int'l 631-924-9000 • www.biodex.com

AECOM

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Description: Table, Equipment, Monitor

Manufacturer: Anthro Corp.   (800.325.3841)

Vendor: Anthro Corp.   (800.325.3841)

Model: Carl's Table CT12SG/xx

Mfr #: CT12SG/xx

Vendor #: CT12SG/xx

CAD ID: TEQ0015

Item ID:

PACS monitor table, Slate Grey (SG). Adjustable height 53.5- 73", keyboard shelf, back privacy shield, footrest, background light, two LED task lights, two control panels, one CPU holder, 3 monitor brackets, 3 USB ports on the worksurface, one keypad surface, two power strips with 14 outlets, 10' cord and cable management sleeve.

General Product Detail

Arch Sig: No		**Spatially Sig:** Yes	
Arch Code: 2 - Movable, Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/C	**Type:** Non-Medical	**Green:** No	

Physical Requirements

Width: 69.50 in (1765 mm)	**Left:** N/A
Depth: 48.00 in (1219 mm)	**Right:** N/A
Height: 73.00 in (1854 mm)	**Front:** N/A
Max Weight: 680 lbs (308.4 kg)	**Back:** N/A
Mounting: Floor	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: 120	**Watts:** *
Hz: 60	**Amps:** *
Phase: Single	**BTU/hr:** N/A
KVA:	**Ded. Circuit:** Yes
Emer. Power: No	**Plug Type:** Type B (NEMA 5-15)

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Includes 14 outlets for charging electronic devices, actual amp/watt draw will depend on equipment plugged into outlets.
15 amp circuit recommended.

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	A156C	NM Read/Viewing	Existing (Reuse)	Draft (Existing)	1	per arch qty to be 1 per 123114 meeting notes - 6526-010 is existing
				Total:	**1**	

CARL'S TABLE ®

Carl's Table is the most advanced radiology workstation developed so far. Adjust the height and tilt of the work surface with the push of a button so you can work comfortably throughout the day — sitting, standing, or reclining. Features include a noise-reducing privacy panel and an integrated lighting system that reads the density of your screen images and automatically adapts to reduce eye fatigue.

Its innovative design and usability earned Carl's Table *Best of NeoCon 2008*, awarded by international leaders in product design.

best of NeoCon 2008 **Gold** winner

The adjustable Carl's Table CT12 allows Juan to comfortably change positions throughout the day from sitting, to standing, to reclining.

PRODUCT SPECIFICATIONS

Tested for safety: CT12 and CT03 are ETL-listed to UL Standard 60950 for the US and Canada.

Colors: See the info with each product for available product colors. See Color Choices at the top of the following pages for available colors.

Warranty: CT03 and CT12 have a Lifetime Warranty against manufacturing defects on the table; two-year warranty on mechanical and electrical components. The power cord, light bulbs, and worksurface pad are not warranted. CT Cart has a two-year warranty on the column, lifetime on the cart. All warranties are against manufacturing defects.

c ETL us LISTED
Intertek

CT12

- Comes with 2 electrically controlled shelves (1 monitor, 1 keyboard) with height and tilt adjustments, side shelf, back Privacy Panel, 2 height-adjustable legs, CPU holder, footrest, 2 background lights, 2 LED task lights, 2 control panels, powered USB hub, Air Ventilation System with 2 adjustable air ports, Monitor Control System™ with 3 monitor brackets and cable management troughs, 3 power strips with 14 outlets, and a 10' power cord with cable management sleeves.
- With up to 100 programmable preset positions, you can record your favorite work position then just enter your code when you sit down to work. The table will automatically adjust to your settings.
- The unique Monitor Control System™ adjusts the height and depth of the monitor bar with push-button control. Comes with installation points for up to 3 monitors; easily upgrades to support up to 5 monitors.
- An adaptive lighting system uses a sensor to automatically adjust the ambient light in the workstation to the image on the screen to help reduce your eye fatigue. Two task lights illuminate the work surface.
- A Privacy Panel shields you from distractions, reduces glare, and diminishes noise up to 35%.
- The Air Circulation System has two adjustable vents at each side of the table to keep gentle air flowing around you, refreshing you while you work.
- The easily-accessed powered USB Hub allows you to plug in up to 3 peripherals.
- Shelves are available in Dark Grey (DG) or Wenge (WE) laminate.
- As part of the package, one of our knowledgeable Field Service Engineers will travel to you to oversee the installation of the table and show your staff how to use it.

Dimensions: 69.5", 18", 48", 28.5", 23.5", 58", 17.75", 73", 53.5", 49.5", 30", 33", 0° to 15°

PRODUCT	Weight	Part #	Price
CT12	680 lbs.	CT12SM/XX	$ 12,950

PROGRAMMABLE PRESETS

MONITOR CONTROL SYSTEM

ADJUSTABLE LIGHTING SYSTEM

AIR CIRCULATION SYSTEM

Metal Color: Silver Metallic (SM)	Keypad Color: Dark Grey	Privacy Panel Color: Slate Grey

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Description: Television, 30-32 in, Flat Panel

Manufacturer: Samsung Electronics   (800-726-7864)

Vendor: Samsung Electronics   (800-726-7864)

Model: UN32EH5000 (32' LED)

32" class (31.5" diagonal) LED television with 1080p resolution. Clear Motion Rate 120. Connections: 2 HDMI, 1 USB, component in, digital audio output, ConnectShare Movie. Energy Star compliant.

Atta ID: 6584-048
Alt ID:
Mfr #: UN32EH5000F
Vendor #: UN32EH5000F
CAD ID: TVS0418
Item ID:

General Product Detail

Arch Sig:	Yes	**Spatially Sig:**	No
Arch Code:	2 - Movable, Elect	**ADA:**	No
Custom Code:	Unassigned	**Antimicrobial:**	No
Furnish Install: C/C	**Type:** Non-Medical	**Green:**	Yes

Physical Requirements

Width:	29.25 in (743 mm)	**Left:**	N/A
Depth:	3.75 in (95 mm)	**Right:**	N/A
Height:	17.50 in (445 mm)	**Front:**	N/A
Max Weight:	13 lbs (5.9 kg)	**Back:**	N/A
Mounting:	Special	**Top:**	N/A
		Bottom:	N/A

Electrical Requirements

Volts:	120	**Watts:**	33
Hz:	60	**Amps:**	<1
Phase:	Single	**BTU/hr:**	N/A
KVA:		**Ded. Circuit:**	No
Emer. Power:	No	**Plug Type:**	Type B (NEMA 5-15)

Utility and Technology Requirements

Water - Cold:	No	**Gasses:**	No
Water - Hot:	No	**Drain:**	No
Water - Treated:	No	**Steam:**	No
Vent:	No	**Vacuum - Dental:**	No
Tech Connect:	Yes	**Vacuum - Medical:**	No

Structural Requirements

Seismic:	No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B119	PET/CT Hot Wait	Project	Draft (New)	1	Per 123114 meeting notes - TV may be deleted, but provide outlets for future use 012115 addendum to 123114 meeting notes - VA - Clinicians request TV's in both spaces
Nuclear Medicine	B126	SPECT/CT Hot Wait	Project	Draft (New)	1	012115 addendum to 123114 meeting notes - VA - Clinicians request TV's in both spaces

Total: 2

PRODUCT HIGHLIGHTS

LED TV

- Full HD 1080p
- Clear Motion Rate 120

The power and fun of an LED TV within reach.

The new 5 series will take your breath away. Every image can be seen in amazing clarity with deep blacks and pure whites. The realistic details of every image will remain intact even for those images that move quickly across the TV screen. The slim profile design provides an immersive viewing experience.

UN32EH5000

32" Class (31.5" Diagonal) LED HDTV with 1080p Resolution

PICTURE QUALITY

- Full HD 1080p
- Clear Motion Rate 120
- Wide Color Enhancer Plus

AUDIO

- 10W x 2
- Dolby® Digital Plus/Dolby® Pulse
- SRS TheaterSound HD™

CONNECTIONS

- HDMI®: 2
- USB: 1
- Component in: 1
- Digital audio output: 1 optical
- ConnectShare™ Movie

NET DIMENSIONS (WxHxD)

TV without stand: 29.1" x 17.5" x 3.7"
TV with stand: 29.1" x 19.6" x 7.5"

UPC

036725236615

UN32EH5000 32" Class (31.5" Diagonal) LED HDTV with 1080p Resolution

PICTURE QUALITY

Full HD 1080p: With twice the resolution of standard HD TVs, Samsung TVs deliver images that are guaranteed to amaze and bring pleasure to your home entertainment experience. The realistic texture of Full HD images invites you to enjoy a viewing experience that redefines reality.

Clear Motion Rate (CMR): A comprehensive measure of a TV's ability to display images in motion. The higher the CMR, the better. Samsung achieves high CMR numbers based on panel processing advancements. See the picture quality difference for yourself.

Wide Color Enhancer Plus: Allows you to see picture color the way the director originally intended, brought to life on your screen to bring you exceptionally vibrant, yet natural-looking images and depicts subtle details and tones.

AUDIO

10 watts x 2 audio power stereo broadcast reception: Supports multi-channel sound (MTS) and second audio program (SAP) with 181-channel capacity.

Dolby® Digital Plus/Dolby® Pulse: An advanced surround sound audio processing feature designed to optimize the TV's sound quality when viewing and listening to Internet movies, Internet music and other content played back from wired or wireless mobile phones, PCs and tablet devices.

SRS TheaterSound HD™: A high-definition audio experience that delivers surround sound multi-channel content, using built-in TV speakers to significantly enhance both the depth and dimension of audio right through the TV. Enjoy a simulated surround sound experience!

CONNECTIONS

HDMI®: 2
HDMI® (High-Definition Multimedia Interface) is a convenient, high-quality single cable digital audio/video interface for connecting the TV to a digital cable box, satellite box, DVD/Blu-ray Disc® Player, PC computers, PC portable devices, new generation tablets and devices featuring the HDMI® output.

USB: 1
Universal Serial Bus (USB) is an industry standard for connecting a variety of computer, audio and video devices to the TV. USB movie capability allows the streaming of video from storage devices, cameras, camcorders and USB drives.

Component in: 1

Digital audio output: 1 optical

ConnectShare™ Movie: Have movies and pictures on a USB drive? Now easily view that content right on the TV. Just plug the drive into the USB port and you are ready for a big screen experience.

NET DIMENSIONS & WEIGHT (WxHxD)

TV without stand: 29.1" x 17.5" x 3.7"
TV without stand weight: 12.6 lbs
TV with stand: 29.1" x 19.6" x 7.5"
TV with stand weight: 14.1 lbs

SHIPPING DIMENSIONS & WEIGHT (WxHxD)

Dimensions: 35.5" x 20.9" x 6.4"
Weight: 17.9 lbs

WARRANTY

1-year parts and 1-year labor warranty (90-days parts and labor for commercial use), with in-home service, backed by Samsung toll-free support.

ORDER CODE

UN32EH5000FXZA

UPC

036725236615

SAMSUNG

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID: 6695-001
Alt ID:

Description: Camera, Gamma, SPECT/CT

Manufacturer: Siemens Medical Imaging   (888-826-9702)

Vendor: Siemens Medical Imaging   (888-826-9702)

Model: Symbia T

Mfr #: 8717766
Vendor #: 8717766
CAD ID: GAM0052
Item ID:

Diagnostic SPECT/CT. Features 3/8" detector, collimator cart, ECG Gate, LCD monitor, integrated automatic collimator changer. Automated daily, weekly, and monthly quality control (QC).

General Product Detail

Arch Sig: Yes		**Spatially Sig:** No	
Arch Code: 2 - Movable, Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/V	**Type:** Medical	**Green:** No	

Physical Requirements

Width: 93.00 in (2362 mm)	**Left:** N/A
Depth: 84.50 in (2146 mm)	**Right:** N/A
Height: 90.50 in (2299 mm)	**Front:** N/A
Max Weight: 7413 lbs (3362.5 kg)	**Back:** N/A
Mounting: Floor	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: 480	**Watts:** *
Hz: 60	**Amps:** 100
Phase: 3-Phase	**BTU/hr:** 21161
KVA:	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** Hardwire

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: Yes	**Vacuum - Medical:** No

Structural Requirements

Seismic: Yes	**Pre-approval:**

Product and Project Item Notes

Specification:
Also requires 115V/20A dedicated quad outlet for computers. Dimensions specified are for Gantry only. Consists of multiple components, see cutsheet for important planning information.

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B123	SPECT/CT	Existing (Reuse)	Draft (Existing)	1	per note - Phillips? Per 123114 meeting notes - Camera to be Symbia - T, not Brightview vendor to relocate
				Total:	**1**	

SYMBIA T, T2, T6 AND T16

Contents:

Typical Drawing #:   13042

SIEMENS

ARCHITECTURAL EQUIPMENT PLAN

SCALE: 1/4" = 1'-0"

Labels on plan:
- 15'-0"
- 7'-8 1/2"
- SCANNER ROOM
- TF (STEP DOWN TRANSFORMER) MAY BE LOCATED IN THE CEILING BY THE CUSTOMER/CONTACTOR.
- SIEMENS HIGHLY RECOMMENDS THE CUSTOMER'S ARCHITECT DESIGNATES SPACE FOR A HOT LAB, PATIENT WAITING AREA, AND UPTAKE ROOM.
- VISUAL RADIATION INDICATOR IS INCLUDED WITH THE SYMBIA AND LOCATED ON THE PATIENT BOOM ARM ACCORDING TO IEC 60601-2-44 AND 21 CFR.
- ORIENTATION POINT
- LEFT PATIENT LOAD RIGHT PHS PIVOT
- SIEMENS SUPPLIED WALL MOUNT HANGER AND RADIATION THERAPY PALLET. CUSTOMER/CONTRACTOR INSTALLS AND SUPPLIES MOUNTING HARDWARE.
- HEIGHT OF WINDOW TO BE COORDINATED WITH COUNTERTOP/DESK HEIGHT.
- SYMBIA.NET WORKPLACE LOCATED AT CUSTOMER'S DISCRETION.
- CONTROL ROOM
- COUNTER OR TABLE TO BE DESIGNED, SUPPLIED AND INSTALLED BY THE CUSTOMER/CONTRACTOR.
- IT IS THE RESPONSIBILITY OF THE CUSTOMER/CONTRACTOR TO PROVIDE A MEANS OF ADEQUATE ATTACHMENT OF THE PC TOWER OFF THE FINISHED FLOOR FOR DAMAGE PROTECTION AGAINST TIP-OVER, FLUIDS, IMPACT ETC.

ENVIRONMENTAL REQUIREMENTS

TEMPERATURE (°F) vs % RELATIVE HUMIDITY (Climatogram)

1) RECOMMENDED OPERATING CONDITIONS.
2) REQUIRED OPERATING CONDITIONS.

TEMPERATURE, HUMIDITY, DUST, AIR CONTAMINATION:

REFER TO THE CLIMATOGRAM ABOVE FOR THE PERMITTED CLIMATE RANGE.

THE MAXIMUM TEMPERATURE GRADIENT IS 8°F PER HOUR.

THE OPTIMAL ENVIRONMENT FOR THE SCANNER ROOM AND THE SYSTEM IS 65°F–86°F (± 8°F/HR.) WITH A RELATIVE HUMIDITY OF 20–80% NON-CONDENSING. THE OPTIMAL ENVIRONMENT FOR THE CONTROL ROOM 75°F (± 8°F/HR.) WITH A RELATIVE HUMIDITY OF 20–80%, NON-CONDENSING. TEMPERATURE RANGES FOR THE SCANNER ROOM AND CONTROL CANNOT BE GUARANTEED IN ALL SEASONS OF THE YEAR, AN APPROPRIATE AIR-CONDITIONING SYSTEM MUST BE INSTALLED ON-SITE BY THE CUSTOMER/CONTRACTOR.

FOR EXTERNAL AIR SUPPLY (FRESH AIR) IT IS RECOMMEND THAT COURSE FILTERS OF THE CLASS EU3 TO EU4 BE USED ON-SITE TO FILTER OUT DUST PARTICLES >10μm.

THE VENTILATION SHOULD ENSURE THAT AGGRESSIVE POLLUTANTS ARE PREVENTED FROM ENTERING THE ROOM. THE ROOM AIR SHOULD BE PROTECTED AGAINST CONTAMINATION BY HYDROGEN SULFIDE, EVEN IN SMALL AMOUNTS. THE MOST WELL KNOWN SOURCES OF HYDROGEN SULFIDE INCLUDE: EXHAUST FUMES AND WASTE WATER FROM DEVELOPERS, EXPOSED SEWER DRAINS, EXHAUST FUMES FROM DIESEL POWER UNITS. IF A DANGER OF SUCH CONTAMINATION EXISTS, CORRECTIVE ACTIONS HAVE TO BE TAKEN E.G.: EXTRACTOR FANS, SIPHON, AND MODIFICATION OF VENTILATION INTAKE.

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	W	D	H	REMARKS
1	SYMBIA T T2 GANTRY W/COLLIMATORS		7,413	21,161	93	84 1/2	90 1/2	6,485 BTU ON STANDBY. WORST CASE WEIGHT 7,963 LBS. WITH (2) HIGH ENERGY COLLIMATORS AT 275 LBS. EACH
1	SYMBIA T6 T16 GANTRY W/COLLIMATORS		7,413	24,574	93	84 1/2	90 1/2	6,826 BTU ON STANDBY. WORST CASE WEIGHT 7,963 LBS. WITH (2) HIGH ENERGY COLLIMATORS AT 275 LBS. EACH
2	FRONT PHS		2,512	–	31 1/8	97 1/2	23 3/16	MAXIMUM HEIGHT 41"
3	AUTOMATIC COLLIMATOR CHANGER–ACC WITH AQC – PRODUCTIVITY PACKAGE (OPTION)		684	–	31 1/8	97 1/2	23 3/16	WEIGHT CALCULATED WITH 1 SET LOW AND MEDIUM ENERGY COLLIMATORS.
4	PHS CABLE ON THE FLOOR STANDARD		–	–	–	–	–	41' CABLE EXPOSED ON THE FLOOR
5	PHS STANDARD PIVOT							STANDARD PIVOT – 33 DEGREES
6	REAR PHS WITH SNAC		415.3	–	–	–	–	ON FLOOR
7	PATIENT BOOM SWING ARM							
8	LINE CONNECTION BOX		227	1,365	29 1/2	11 3/4	32	ON FLOOR
9	UPS FOR SPECT (OPTION)		120	1,024	10	28 3/8	17 7/8	ON FLOOR
10	TRANSFORMER REQUIRED WITH UPS FOR SPECT (SPS) (OPTION)							CUSTOMER SUPPLIED PRIOR TO INSTALLATION. SEE POWER SCHEDULE
11	RTP PALLET (OPTION)		24.5	–	21	10	80 1/2	SIEMENS/CUSTOMER SUPPLIED WALL MOUNT.
12	COLLIMATOR CART (EMPTY) (OPTION)		400	–	47 3/8	32 5/8	47 1/2	WORST CASE 1330 LBS. WITH 1 SET HE AND 1 SET LE
13	IMAGE CONSTRUCTION SYSTEM FOR SYNGO MI (ACQUISITION) WORKPLACE		66	2,398	8 1/2	22	18	OFF FLOOR.
14	IMAGE RECONSTRUCTION SYSTEM FOR SYNGO MI (ACQUISITION) WORKPLACE		66	*	8 1/2	22	18	OFF FLOOR. *BTU'S INCL. WITH ICS
15	CONTROL AND KEYBOARD		–	–	–	–	–	ON CUSTOMER'S COUNTER
16	18" MONITOR		31	–	18 3/8	2 5/8	14 13/16	ON CUSTOMER'S COUNTER
17	SYNGO MI (ACQUISITION) WORKPLACE UPS FOR IMS STANDARD COMPONENT		70	–	5	19	17 1/4	OFF FLOOR
18	DEDICATED RECONSTRUCTION SYSTEM WORKPLACE (OPTION)		55	*	8	20 3/4	18	OFF FLOOR. *BTU'S INCL. WITH ICS
19	DEDICATED RECONSTRUCTION SYSTEM WORKPLACE MONITOR (OPTION)		31	–	18 3/8	2 5/8	14 13/16	ON CUSTOMER'S COUNTER. *BTU'S INCL. WITH ICS
20	DEDICATED RECONSTRUCTION SYSTEM WORKPLACE KEYBOARD (OPTION)		–	–	–	–	–	ON CUSTOMER'S COUNTER
21	DVD (OPTION)							ON CUSTOMER'S COUNTER
22	SYMBIA.NET WORKPLACE CPU (OPTION)		51	1,400	8	21	17 1/2	OFF FLOOR
23	SYMBIA.NET WORKPLACE KEYBOARD AND MONITOR (OPTION)		31	*	17 5/8	18 5/16	17	ON CUSTOMER'S COUNTER. *BTU'S INCL. WITH SNW CPU

ARCHITECTURAL NOTES

1) ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS MEDICAL SOLUTIONS, INC. (SMS HEREAFTER) ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SMS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SMS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE LOCATION SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SMS. SMS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENCROACH WITHIN DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (IE. PIPE CHASES, VENTILATION DUCTS, CASEWORK, AND SOFFITS, ETC.) MADE BY THE CUSTOMER OR REQUIRED BY A CUSTOMER'S ARCHITECTURAL FIRM ONCE PRELIMINARY DRAWINGS HAVE BEEN SUBMITTED AND APPROVED. DO NOT ALTER ANY SPECIFICATIONS AND/OR DIMENSIONS WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SMS PROJECT MANAGER.

2) SMS IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SMS ARE NOT CONSTRUCTION DRAWINGS. THEREFORE, THESE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. THE CUSTOMER'S ARCHITECT AND GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL DESIGN REQUIREMENTS.

3) THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.

4) EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART OF SMS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS, UNLESS SPECIFIED OTHERWISE.

5) ALL DIMENSIONS SHOWN ARE TAKEN FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE.

6) THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST. ACTUAL PROTECTION REQUIREMENTS SHALL BE SPECIFIED BY A REGISTERED RADIATION PHYSICIST AT CUSTOMER'S ENGAGEMENT AND EXPENSE. RESPONSIBILITY FOR ALL INFORMATION AS TO THE ROOM LOCATION, USE, AND NUMBER OF ANTICIPATED EXAMINATIONS TO BE PERFORMED PER THE PERIOD SHALL BE PROVIDED TO THE PHYSICIST BY THE CUSTOMER. THE CUSTOMER SHALL FURTHER TAKE ALL RESPONSIBILITY IN THE COMMUNICATION AND COORDINATION OF ACTIVITIES OF THE RADIATION PHYSICIST AND THE ARCHITECTURAL REPRESENTATIVE.

7) SMS SHALL BE RESPONSIBLE FOR SMS EQUIPMENT INSTALLATION AND CALIBRATION, CONNECTION AND INSTALLATION OF SMS PROVIDED CABLES, AND CONNECTION OF CONTRACTOR PROVIDED WIRES TO SMS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PAY FOR SELECTED, APPROVED PARTIES TO PERFORM THIS WORK WITH JOB SUPERVISION TO BE PROVIDED BY SMS. CALIBRATION WHEN ACCOMPLISHED OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL BE SUPPORTED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE.

8) THE CUSTOMER SHALL VERIFY WITH SMS PROJECT MANAGER FINAL INSTALLATION DRAWINGS THE LOCATIONS AND TRAVEL OF ALL ANCILLARY EQUIPMENT IE: CEILING OR WALL MOUNTED (IE: O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).

9) THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR ALL FINAL PAINT, TOUCH-UP AND ANY COSMETIC OR TRIM WORK WHICH NEEDS TO BE OR IS REQUIRED TO BE COMPLETED AFTER THE INSTALLATION OF THE SMS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.

ROOM MEASUREMENTS

ALL ROOM MEASUREMENTS AND ROOM DETAIL SPECIFICATIONS MUST BE VERIFIED ON SITE PRIOR TO BEGINNING ANY CONSTRUCTION WORK.

TRANSPORT AND DELIVERY NOTES

NM SUB-SYSTEM ON SKID	4,118 LBS.
NM GANTRY WITH TRANSPORT AND BOOM	3,886 LBS.
CT SUB-SYSTEM	2,480 LBS.
FRONT PHS	2,745 LBS.
REAR PHS	506 LBS.

NORMAL TRANSPORT REQUIREMENTS:
DURING THE MOVEMENT OF THE GANTRY THROUGH CORRIDORS THE TRANSPORT CASTERS ARE SWIVELED OUT FOR STABILITY.

FRONT PHS REQUIRES THE SAME HALLWAY TRANSPORT ROUTE AS THE GANTRY AS SHOWN BELOW.

PLEASE CONSULT PLANNING GUIDE FOR ELEVATOR CLEARANCES FOR GANTRY AND FRONT PHS.

HALLWAY TO DOOR TRANSPORT:
TRANSPORTS MAY HAVE TO BE SWIVELED IN NARROW AREAS. ONCE SYSTEM HAS PASSED THROUGH NARROW AREA, THE TRANSPORT ROLLERS MUST BE SWIVELED OUT AGAIN FOR STABILITY.

TRANSPORTING GANTRY FLOOR LOAD:
ACCESS FLOORS MUST BE LAID OUT TO SUPPORT A LOAD MINIMUM 1296 LBS. DURING TRANSPORT OF THE GANTRY, HIGHER LOADS CAN OCCUR AT INDIVIDUALS POINTS IF THE FLOOR IS NOT LEVEL. COVER THE TRANSPORT PATH WITH SHEET METAL TO DISTRIBUTE THE FLOOR LOAD.

HALLWAY TRANSPORT FOR GANTRY:

HALLWAY TRANSPORT FOR FRONT PHS:

CASEWORK & ACCESSORY NOTES

1) ALL CASEWORK IS EITHER EXISTING OR IS TO BE DESIGNED, DETAILED, FURNISHED AND INSTALLED BY THE CUSTOMER AND/OR CONTRACTOR. FOLLOW DESIGN RECOMMENDATIONS INCLUDED HEREWITH, AS THEY ARE ESSENTIAL FOR THE SUCCESSFUL INSTALLATION & OPERATION OF THE SIEMENS EQUIPMENT.

2) ALL FURNITURE (CHAIRS, ETC.) FOR THE CONTROL ROOM ARE TO BE PROVIDED BY THE CUSTOMER.

MAGNETIC FIELD PRECAUTIONS

THE PRESENCE OF MAGNETIC FIELDS IN THE VICINITY OF EQUIPMENT MAY HAVE AN ADVERSE EFFECT. IT IS THE CUSTOMER'S RESPONSIBILITY TO VERIFY THAT THE FOLLOWING VALUES ARE NOT EXCEEDED.

MAXIMUM ALLOWABLE MAGNETIC FIELD	DEVICES
1.0mT (10 GAUSS)	COMPUTERS, MAGNETIC DISK DRIVES
0.2mT (2 GAUSS)	SIEMENS CT PORTION OF SYMBIA SIEMENS CT SCANNERS
0.15mT (1.5 GAUSS)	COLOR MONITOR (FOR LIQUID CRYSTAL DISPLAYS ONLY)
0.1mT (1.0 GAUSS AC OR DC)	SIEMENS HAS ESTABLISHED THE UPPER LIMITS OF MAGNETIC FIELD EXPOSURE FOR THE SYMBIA DETECTORS

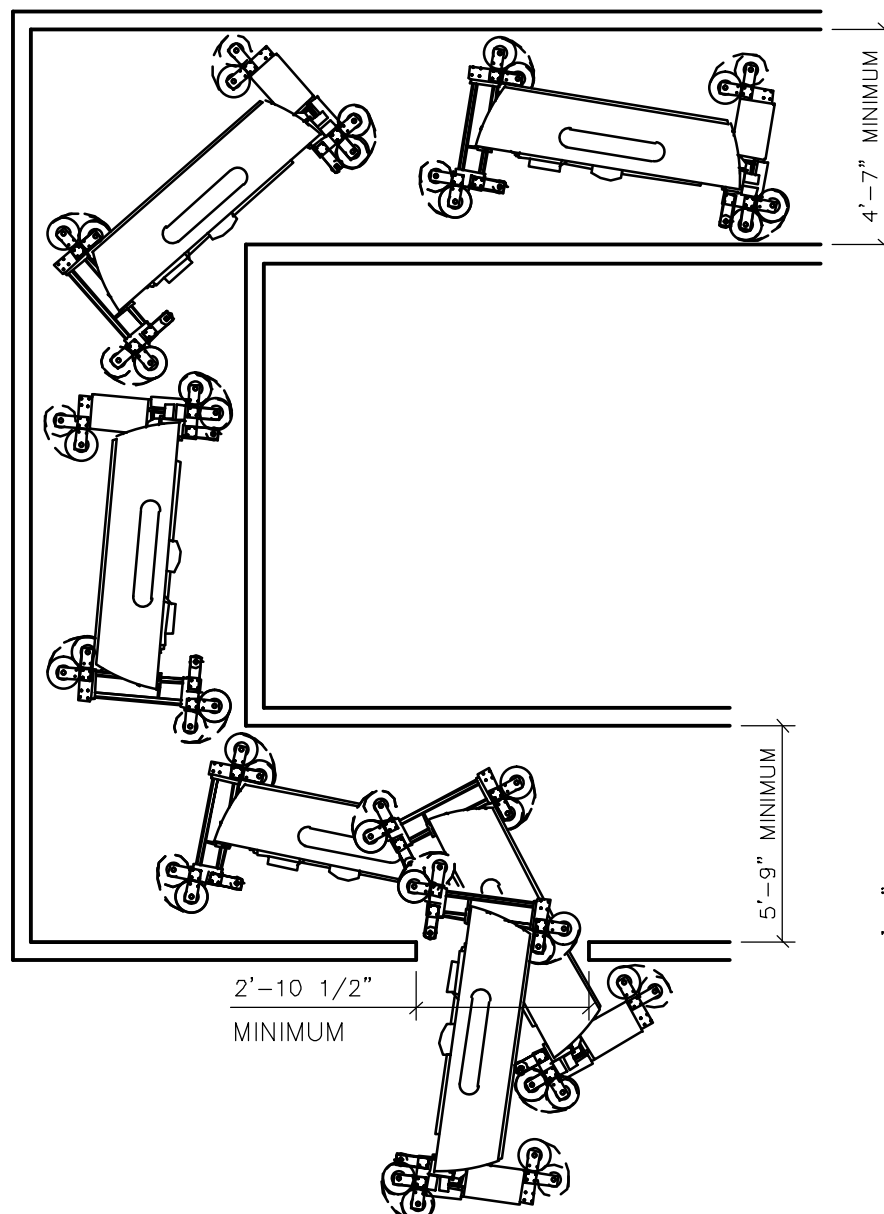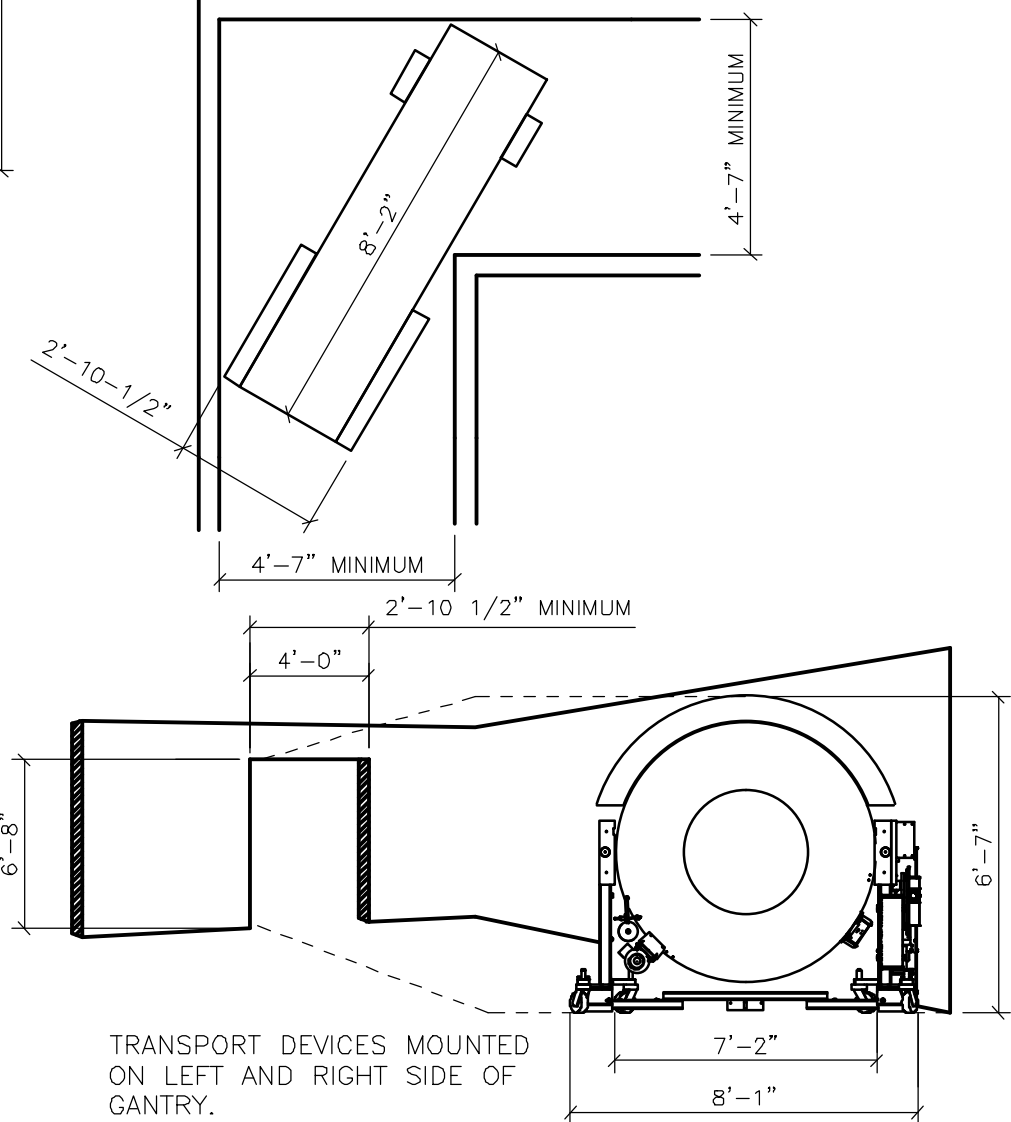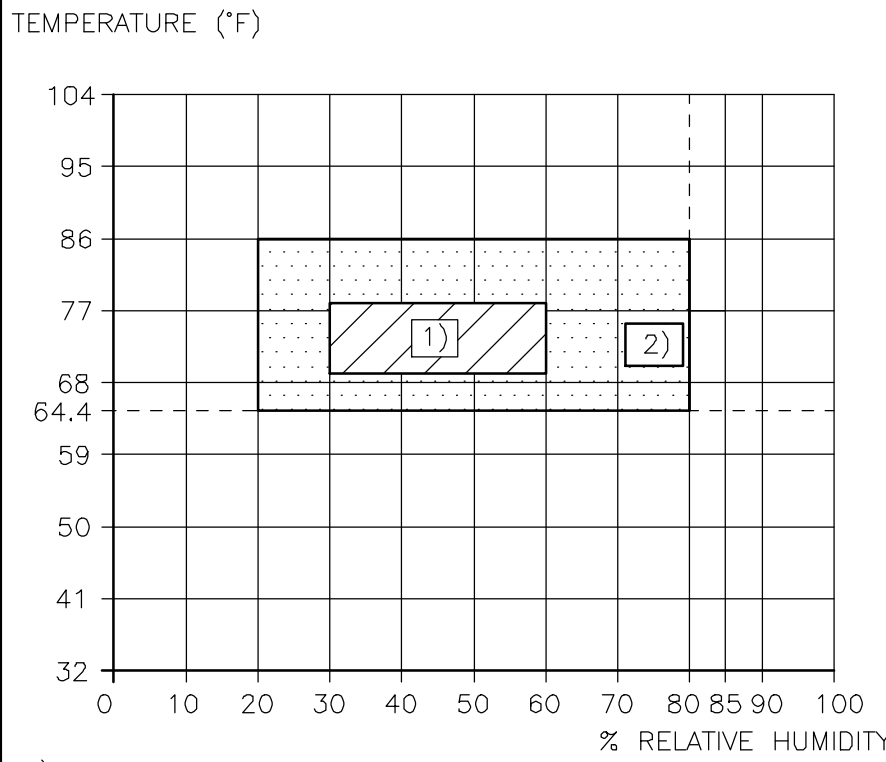MAGNETIC FIELDS SHOULD BE MEASURED PRIOR TO DELIVERY.

LIGHTING GUIDELINES

ROOM LIGHTING IS THE RESPONSIBILITY OF THE CUSTOMER. HOWEVER, SIEMENS OFFERS THE FOLLOWING RECOMMENDATIONS, AS A GENERAL GUIDE ONLY, WHEN PLANNING FOR LIGHTING.

1) OVERALL GENERAL ILLUMINATION IS NECESSARY FOR CLEAN UP AND MAINTENANCE OF EQUIPMENT.

2) THE LIGHTING IN ROOMS IN WHICH DIAGNOSES ARE MADE ON VIDEO DISPLAY UNITS (MONITORS) MUST MEET THE FOLLOWING REQUIREMENTS:

– ADJUSTABLE, GLARE-FREE AND REPRODUCIBLE SETTING OF LIGHTING (I.E. DIMMER WITH SCALE)

– NO REFLECTIONS FROM WINDOWS, LAMPS AND VIEWING BOXES WHEN THE MONITORS ARE IN THEIR STANDARD OPERATING POSITION.

SITE READINESS GUIDELINES

THE FOLLOWING GENERAL CONDITIONS ARE NECESSARY TO HAVE THE STATUS OF "READY SITE":

1) PROPER POWER AVAILABLE AT SIEMENS EQUIPMENT POWER CABINET LOCATION.
2) AIR CONDITIONING/HUMIDIFICATION SYSTEMS COMPLETE, TESTED, AND FUNCTIONING PROPERLY ACCORDING TO SIEMENS SPECIFICATIONS.
3) PROPER LIGHTING INSTALLED AND FUNCTIONING.
4) PLUMBING COMPLETE EXCEPT FOR ANY FINAL CONNECTIONS TO SIEMENS EQUIPMENT. LINES MUST BE FLUSHED AND LEAKED TESTED.
5) ALL CABLE TRAYS/DUCTS/CONDUITS CORRECTLY SIZED AND INSTALLED IN THE CORRECT LOCATIONS ACCORDING TO THE SIEMENS DRAWINGS.
6) ALL REINFORCEMENT PLATES INSTALLED AS REQUIRED.
7) ROOM FOR EQUIPMENT INSTALLATION AND IMMEDIATE VICINITY IS DUST-FREE AND IS TO REMAIN SO FOR THE DURATION OF THE INSTALLATION.
8) A SECURE AREA, APPROXIMATELY 10'x10', IS AVAILABLE AT EQUIPMENT DELIVERY FOR PARTS AND INSTALLATION TOOLS.
9) CUSTOMER SUPPLIED CAMERAS AND PROCESSORS INSTALLED.
10) MODEM OUTLET OR ROUTER, VOICE AND DATA TELEPHONE LINES INSTALLED.
11) WALLS TO BE PRIMED AND PAINTED, FLOORS TO BE TILED CEILINGS TO BE INSTALLED.

IF THESE CONDITIONS ARE NOT MET, THE SIEMENS PROJECT MANAGER AND THE DESIGNATED SIEMENS INSTALLATION SUPERVISOR SHALL RESCHEDULE THE INSTALLATION START DATE. NOTE: ADDITIONAL COST MAY BE INCURRED BY THE CUSTOMER/CONTRACTOR WHEN THE SIEMENS SITE READINESS GUIDELINES ARE NOT MET, AND DELIVERY DATES NEED TO BE RESCHEDULED.

ENVIRONMENTAL/POWER AUDIT

AS AN INDICATION OF OUR COMMITMENT TO QUALITY, SIEMENS MAY, AT NO COST TO YOUR FACILITY, CHECK THE OPERATING ENVIRONMENT AFTER SYSTEM TURNOVER TO DETERMINE IF THE REQUIREMENTS FOR TEMPERATURE, HUMIDITY, POWER, AND GROUNDING ARE MET AS PER SIEMENS' PUBLISHED SPECIFICATIONS. SIEMENS WILL GENERATE A WRITTEN REPORT DETAILING THE ENVIRONMENTAL AND ELECTRICAL CONDITION OF THE SITE AFTER TURNOVER AND, WILL SHARE THE REPORT WITH YOU. IN THE EVENT WE IDENTIFY ANY ENVIRONMENTAL/POWER DEFICIENCIES AT THE SITE, YOUR FACILITY WILL BE REQUESTED TO CORRECT DEFICIENCIES WITHIN THIRTY (30) DAYS. SHOULD ANY CORRECTIVE ACTIONS BE NECESSARY, AND UPON REQUEST, SIEMENS WILL PROVIDE GUIDANCE IN AN EFFORT TO FACILITATE RESOLUTION. PLEASE BE ADVISED THAT AFTER 30 DAYS NOTICE ANY REPAIR OR MAINTENANCE SERVICES NECESSITATED BY SEVERE DEFICIENCIES WILL FALL OUTSIDE YOUR WARRANTY COVERAGE.

NOISE LEVEL

SYSTEM COMPONENT	DECIBEL LEVEL (AT 3'-3" DISTANCE)
SYMBIA T, T2, T6 AND T16 GANTRY	68
FRONT PHS (PATIENT TABLE)	60
UPS FOR IMS	<45

1) NOISE DEPENDS ON THE ROOM TEMPERATURE AND THE PROCESSOR LOAD.

FINISHED ROOM HEIGHT

SYMBIA T, T2, T6 OR T16	MINIMUM 8'-0"
SYMBIA T, T2, T6 OR T16 WITH CEILING MOUNTED COMPONENT OTHER THAN RADIATION ON LAMP	MINIMUM 8'-0" MAXIMUM 12'-0"

CONSIDER THE WARNING LIGHT WILL BE PLACED ON TOP OF THE PATIENT BOOM. ANY OTHER CEILING MOUNTED COMPONENT MUST BE PLACED AS TO NOT COLLIDE WITH WARNING LIGHT.

STATE AGENCY REVIEW

PRIOR TO SIEMENS EQUIPMENT INSTALLATION, APPROVAL OF CONSTRUCTION OR STRUCTURAL MODIFICATIONS UTILIZING X-RAY FOR DIAGNOSTIC OR THERAPEUTIC PURPOSES, MUST BE OBTAINED BY THE CUSTOMER FROM THE APPROPRIATE STATE AGENCY, IF APPLICABLE.

RESOURCE LIST (SMS USE ONLY)

DESIGNATION	PG NUMBER	DATE
SYMBIA T, T2, T6 AND T16.	NM02-001.891.02.11.02	08/13

SYMBIA T, T2, T6, T16 REV 3

SIEMENS

SYMBIA T, T2, T6 AND T16
TYPICAL FINAL DRAWING SET

PROJECT #: 13042

SHEET: A-101

SHEET 1 OF 6

SYM	DATE	DESCRIPTION
	N/A	TYPICAL REV 1

–ISSUE BLOCK–

SCALE: AS NOTED

ATTENTION:

SAFETY/SERVICE CLEARANCE PLAN

SCANNER ROOM

SERVICE CLEARANCE
OSHA CLEARANCE
DETECTOR MOVEMENT
PATIENT BOOM ARM MOVEMENT
ORIENTATION POINT
SAFETY CLEARANCE
SERVICE CLEARANCE
SERVICE CLEARANCE

HATCH AREA NEEDS TO BE FREE OF ANY OBSTRUCTION FOR THE COLLIMATOR CART TRAVEL PATH.

PHS MOVEMENT
OSHA CLEARANCE
GANTRY IN SERVICE POSITION
SERVICE CLEARANCE

7'-8 1/2"
10'-9"

OSHA CLEARANCE
SERVICE CLEARANCE
SERVICE CLEARANCE

CONTROL ROOM

SCALE: 1/4" = 1'-0"

RADIATION SCATTER

METERS

-1.5	12	25	31	34	31	25	10
-1.0	7	33	64	65	64	35	6
-0.5	1		158	135	115		1
0							
0.5	1		65		6		1
1.0	5	23	32	35	32	5
1.5	12	24	32	32	25	12
2.0	12	16	18	8	16	13
2.5	9	11	11	9	11	10	9
3.0	7	7	8	4	8	7	7

1.5 1.0 0.5 0 0.5 1.0 1.5   METERS

SYMBIA T16

MEASUREMENT IN µGy/As SCAN   SCALE: 1/4"=1'-0"

THE MEASUREMENT WAS TAKEN AT THE MAXIMUM SLICE THICKNESS OF 16 x 1.2 mm AT 130 kV AND 300 mAs/scan IN THE HORIZONTAL PLANE THROUGH THE SYSTEM AXIS WITH THE SPECT DETECTORS AT 180° POSITION. THE PHANTOM USED WAS A CYLINDRICAL PMMA PHANTOM WITH A DIAMETER OF 32 CM AND A LENGTH OF 16 CM. THE PHANTOM WAS CENTERED IN THE TOMOGRAPHIC PLANE.
◆ INDICATES CT ORIENTATION POINT
✦ INDICATES SPECT ORIENTATION POINT

RADIATION SCATTER

METERS

-1.5	6	11	14	16	14	10	6
-1.0	3	14	29	32	29	15	3
-0.5	1		72		51		1
0							
0.5	1		65		6		1
1.0	3	13	31	4	15	3
1.5	6	11	5	6	12	6
2.0	6	7	9	7	7	6
2.5	4	5	5	4	5	4
3.0	3	4	3	2	4	4	3

1.5 1.0 0.5 0 0.5 1.0 1.5   METERS

SYMBIA T/T2

MEASUREMENT IN µGy/As SCAN   SCALE: 1/4"=1'-0"

THE MEASUREMENT WAS TAKEN AT THE MAXIMUM SLICE THICKNESS OF 2 x 5 mm AT 130 kV AND 180 mAs/scan IN THE HORIZONTAL PLANE THROUGH THE SYSTEM AXIS. THE PHANTOM USED WAS A CYLINDRICAL PMMA PHANTOM WITH A DIAMETER OF 32 CM AND A LENGTH OF 16 CM. THE PHANTOM WAS CENTERED IN THE TOMOGRAPHIC PLANE.
◆ INDICATES CT ORIENTATION POINT
✦ INDICATES SPECT ORIENTATION POINT

RADIATION SCATTER

METERS

-1.5	11	20	29	31	28	21	12
-1.0	6	25	54		56	31	6
-0.5	1		139	99		1
0							
0.5	1		4		6		1
1.0	5	26	57	5	25	5
1.5	11	21	27	7	21	11
2.0	11	13	16	5	13	11
2.5	8	9	10	7	8	9	8
3.0	6	6	7	4	7	6	6

1.5 1.0 0.5 0 0.5 1.0 1.5   METERS
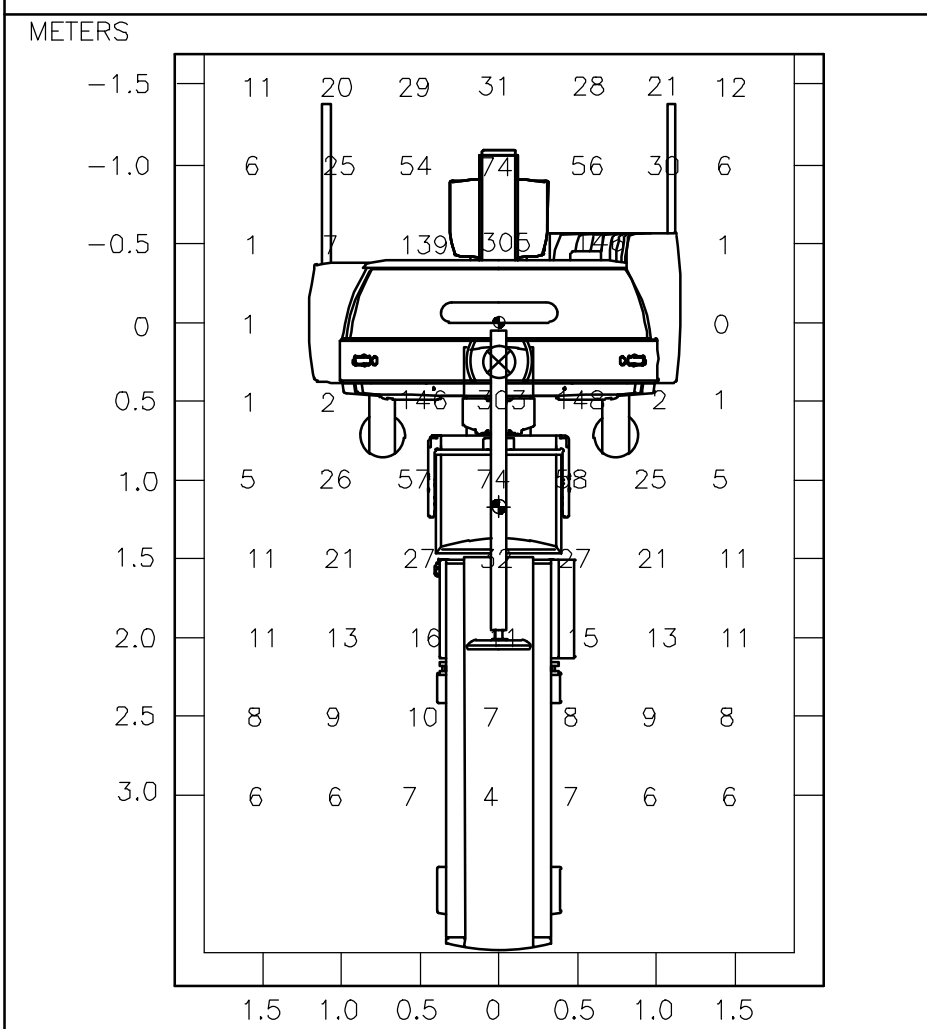
SYMBIA T6

MEASUREMENT IN µGy/As SCAN   SCALE: 1/4"=1'-0"

THE MEASUREMENT WAS TAKEN AT THE MAXIMUM SLICE THICKNESS OF 6 x 3 mm AT 130 kV AND 300 mAs/scan IN THE HORIZONTAL PLANE THROUGH THE SYSTEM AXIS. THE PHANTOM USED WAS A CYLINDRICAL PMMA PHANTOM WITH A DIAMETER OF 32 CM AND A LENGTH OF 16 CM. THE PHANTOM WAS CENTERED IN THE TOMOGRAPHIC PLANE.
◆ INDICATES CT ORIENTATION POINT
✦ INDICATES SPECT ORIENTATION POINT

SIEMENS REMOTE SERVICES (SRS)

TO ENSURE THE UPTIME OF YOUR SYSTEM DURING THE WARRANTY PERIOD (AND BEYOND WITH A SERVICE AGREEMENT), SIEMENS REMOTE SERVICES (SRS) REQUIRES REMOTE LOCAL AREA NETWORK ACCESS TO SIEMENS SYSTEMS.

SRS REQUIRES ONE OF THE FOLLOWING CONNECTION METHODS:

(PREFERRED) VPN CONNECTION

THE PREFERRED CONNECTION METHOD IS (VPN) VIRTUAL PRIVATE NETWORK (WHERE THE CUSTOMER HAS AVAILABLE A VPN CAPABLE FIREWALL OR OTHER VPN APPLIANCE). THIS METHOD PROVIDES THE POSSIBILITY FOR REMOTE SYSTEM DIAGNOSTICS WITHOUT ADDITIONAL HARDWARE. PLEASE CONTACT SIEMENS REMOTE SERVICES (800-888-SIEM) TO DETERMINE IF THIS METHOD IS SUITABLE FOR YOUR SITE.

(OPTIONAL) SRS ROUTER CONNECTION

- THE SRS ROUTER IS SUPPLIED BY SIEMENS AND INSTALLED AT THE CUSTOMER'S SITE, WHILE STILL REMAINING THE PROPERTY OF SIEMENS. THE CUSTOMER'S NETWORK ADMINISTRATOR AND SIEMENS REMOTE SERVICES SHALL DETERMINE THE TYPE AND LOCATION OF THE SRS ROUTER REQUIRED.

- THE SRS ROUTER IS CONNECTED TO AN ANALOG MODEM THAT IS SUPPLIED BY SIEMENS, WHICH THEN IN TURN IS CONNECTED TO AN ANALOG PHONE LINE THAT IS SUPPLIED BY THE CUSTOMER. ONE SRS ROUTER ALLOWS REMOTE DIAGNOSTICS TO MULTIPLE MEDICAL SYSTEMS.

- THE SRS ROUTER SHOULD BE INSTALLED IN A SECURE LOCATION (CUSTOMER'S NETWORK COMPUTER ROOM) THAT HAS LIMITED ACCESS. IT CAN BE LOCATED ON A SHELF, TABLE, OR IN A CABINET. THE CONNECTION CABLES (WITH INDICATED LENGTHS BELOW) ARE INCLUDED WITH DELIVERY.

SRS ROUTER CONNECTION DIAGRAM
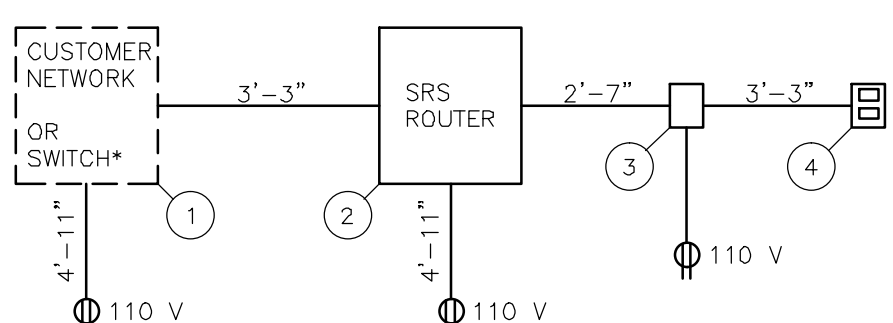
NOTE: ALL POWER OUTLETS ARE SUPPLIED/INSTALLED BY CUSTOMER.

① ETHERNET SWITCH OR HUB, SUPPLIED BY CUSTOMER

② SRS ROUTER, SUPPLIED BY SIEMENS (SIZE: 11.2"W X 8.7"D X 5.5"H, WEIGHT: 2 LBS.)

③ ANALOG MODEM, SUPPLIED BY SIEMENS

④ ANALOG PHONE LINE, SUPPLIED BY CUSTOMER

* OPTIONAL SWITCH AND CABLES ARE NOT INCLUDED, BUT CAN BE ORDERED FROM SIEMENS.

-	SIEMENS REMOTE SERVICE	SCALE: NONE

SAFETY CLEARANCE NOTE

IF THE SAFETY DISTANCES ARE NOT OBSERVED, SAFETY MEASURES IN ACCORDANCE WITH LOCAL CODES SHOULD BE UTILIZED (FOR EXAMPLE BARRIERS, WARNING SIGNS, AND SAFETY MATS).

RADIATION SAFETY

LEAD OR EQUIVALENT SHIELDING MAY BE REQUIRED IN THE WALLS OF THE SCANNER ROOM, HOTLAB AND/OR PATIENT PREPARATION AREAS. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO VERIFY WITH THE SITE'S RADIATION SAFETY OFFICER THAT RADIATION DOSE RATES FROM THE SPECT PATIENT AND/OR ISOTOPE WILL NOT EXCEED LOCAL RADIATION SAFETY GUIDELINES IN THE ROOM ADJACENT TO SCANNER, HOTLAB, AND/OR PATIENT PREPARATION AREAS.

IMPROPER SHIELDING MAY AFFECT CAMERA'S PERFORMANCE.

RADIOACTIVE SOURCES

THE FOLLOWING RADIOACTIVE SOURCES ARE REQUIRED FOR THE SYMBIA T AT THE TIME OF INSTALLATION FOR CALIBRATION:

1) 10-20 mCi Co57 (COBALT 57) OR LIQUID FILLED Tc99 (TECHNETIUM 99) SHEET SOURCE (FOR EXTRINSIC FLOOD).
2) POINT SOURCE 30-35 uCi Tc99 (FOR INTRINSIC FLOODS, TUNING AND PEAKING).
3) QUANTITY OF 5 - 1 mCi Tc99 POINT SOURCES (FOR MHR CALIBRATION).
4) QUANTITY OF 10 Tc99 POINT SOURCES WITH COMBINED ACTIVITY OF ALL SOURCES 5 mCi TO 20 mCi (FOR NM/CT FOV).

IT IS CUSTOMER'S RESPONSIBILITY TO OBTAIN THESE SOURCES PRIOR TO INSTALLATION. CO-57 RECTANGULAR FLOOD SHEET SOURCE MAY BE ORDERED FROM SIEMENS (ASK SIEMENS SALES ASSOCIATE). Tc99 MUST OBTAINED THROUGH CUSTOMER'S LOCAL RADIOACTIVE SOURCE PROVIDER.

THESE RADIOACTIVE SOURCES AREA NEEDED TO COMPLETE CALIBRATION OF EQUIPMENT. PLEASE NOTE SOURCE PROVIDERS WILL NOT SHIP SOURCES TO SITE WITHOUT A VALID RAM LICENSE.

RAM LICENSE

RAM LICENSE NEEDS TO BE APPLIED FOR THROUGH GOVERNMENT AGENCY AS EARLY AS POSSIBLE. PLEASE ADDRESS WITH YOUR RSO (RADIATION SAFETY OFFICER).

RAM LICENSE MUST BE OBTAINED NO LATER THAN 4 WEEKS AHEAD OF SCHEDULED DELIVERY. DELAY OF INSTALLATION MAY OCCUR IF SITE HAS NOT OBTAINED RAM LICENSE AT THIS TIME. RADIOACTIVE SOURCES NEEDED TO COMPLETE CALIBRATION OF EQUIPMENT WILL NOT BE SHIPPED TO SITE WITHOUT VALID RAM LICENSE.

LIGHTING GUIDELINES

ROOM LIGHTING IS THE RESPONSIBILITY OF THE CUSTOMER. HOWEVER, SIEMENS OFFERS THE FOLLOWING RECOMMENDATIONS, AS A GENERAL GUIDE ONLY, WHEN PLANNING FOR LIGHTING.

1) OVERALL GENERAL ILLUMINATION IS NECESSARY FOR CLEAN UP AND MAINTENANCE OF EQUIPMENT.

2) THE LIGHTING IN ROOMS IN WHICH DIAGNOSES ARE MADE ON VIDEO DISPLAY UNITS (MONITORS) MUST MEET THE FOLLOWING REQUIREMENTS:

- ADJUSTABLE, GLARE-FREE AND REPRODUCIBLE SETTING OF LIGHTING (I.E. DIMMER WITH SCALE)

- NO REFLECTIONS FROM WINDOWS, LAMPS AND VIEWING BOXES WHEN THE MONITORS ARE IN THEIR STANDARD OPERATING POSITION.

FINISHED ROOM HEIGHT

SYMBIA T, T2, T6 OR T16	MINIMUM 8'-0"
SYMBIA T, T2, T6 OR T16 WITH CEILING MOUNTED COMPONENT OTHER THAN RADIATION ON LAMP	MINIMUM 8'-0" MAXIMUM 12'-0"

CONSIDER THE WARNING LIGHT WILL BE PLACED ON TOP OF THE PATIENT BOOM. ANY OTHER CEILING MOUNTED COMPONENT MUST BE PLACED AS TO NOT COLLIDE WITH WARNING LIGHT.

SYMBIA T, T2, T6, T16
REV 3

SIEMENS

SYMBIA T, T2, T6 AND T16
TYPICAL FINAL DRAWING SET

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.	PROJECT #: **13042**	SHEET: **A-102**

	N/A	TYPICAL REV 1	ALL RIGHTS ARE RESERVED.	SHEET 2 OF 6	DRAWN BY:
SYM	DATE	DESCRIPTION			DATE:

-ISSUE BLOCK-   SCALE: AS NOTED   REF. #:

ATTENTION:

-THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.
-THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

-IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

-ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
-THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

NOTE: FOR THE WEIGHTS OF ALL SIEMENS EQUIPMENT SHOWN ON THIS PLAN, SEE THE "EQUIPMENT LEGEND" ON SHEET A-101.

7'-8 1/2"

10'-9"

ORIENTATION POINT

2 S-101
1 S-101

5 S-101 4 S-101 3 S-101

6 S-101

SCANNER ROOM

CONTROL ROOM
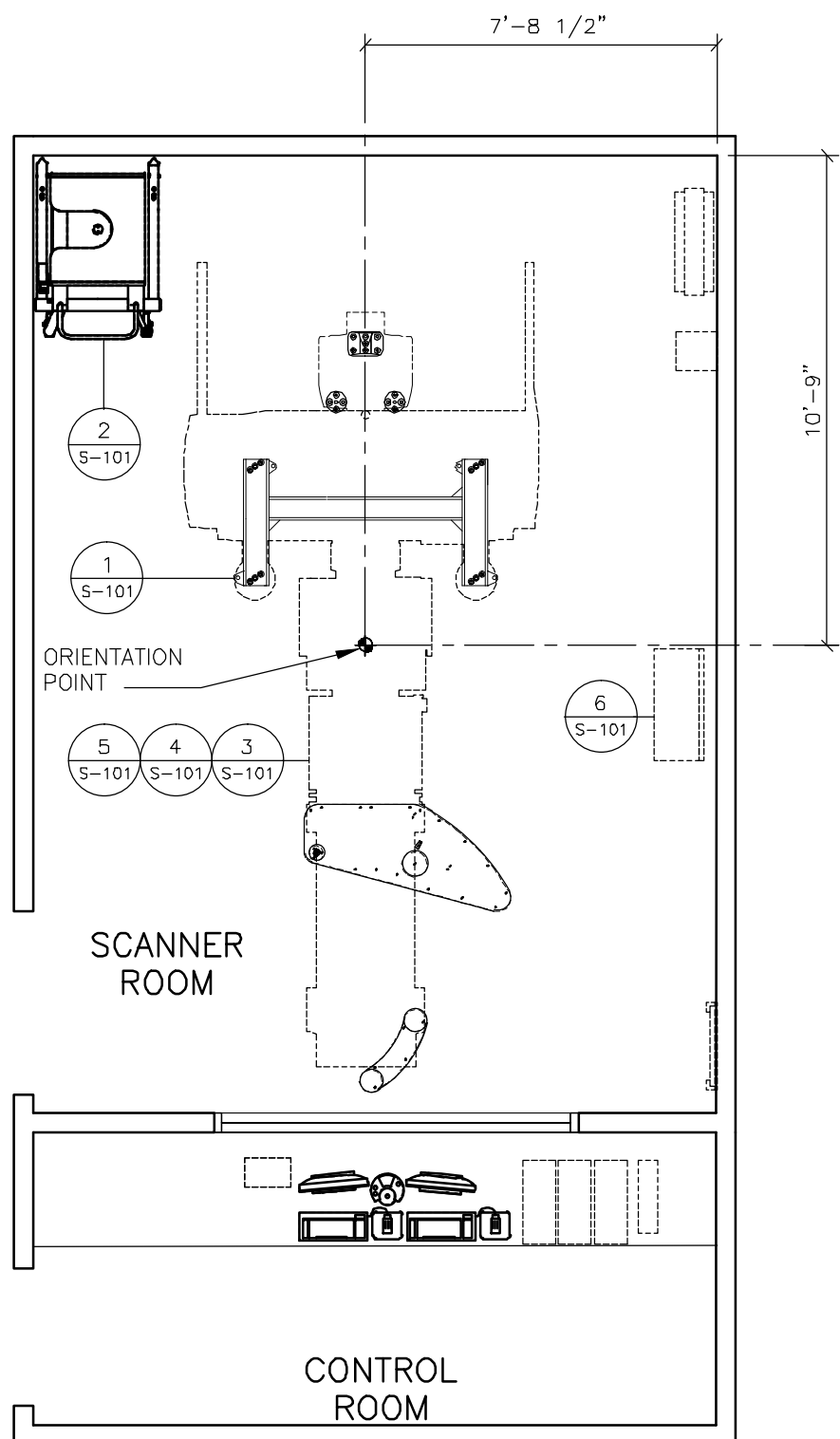
STRUCTURAL FLOOR PLAN

SCALE: 1/4" = 1'-0"

FLOOR REQUIREMENTS

1) THE MINIMUM ALLOWABLE CONCRETE THICKNESS FOR NONSEISMIC REGIONS OF THE SCANNER ROOM FLOOR IS 4".
2) CONDITIONS OF FLOORING:

VIBRATION FREE LOCATION AS FOUND IN A TYPICAL CLINICAL ENVIRONMENT.

INSTALLATION OF THE GANTRY AND PATIENT TABLE ON:

CONCRETE FLOORING CLASS C20/25 TO C50/60. COMPOSITE FLOORING OR ACCESS FLOOR WITH SUITABLE ON SITE MOUNTING FRAME, SUB CONSTRUCTION. OR EQUIVALENT STRUCTURE.

3) WEIGHT CAPACITY OF FLOORING SHOULD BE TESTED BY A STRUCTURAL ENGINEER.
4) ANY FLOORING OTHER THAN LISTED ABOVE REQUIRES AN ON SITE FRICTION FREE SUB CONSTRUCTION MADE FROM STEEL IN THE AREAS OF SUPPORT. PLEASE CONSULT STRUCTURAL ENGINEER.
5) THE MINIMUM EXTRACTION FORCE FOR THE POINTS WHERE THE PATIENT TABLE IS ATTACHED IS 610 LBF. PER ANCHOR.

INSTALLATION ON A FLOATING FLOOR WITHOUT SUB-CONSTRUCTION IS PROHIBITED.

6) THE BASE FRAME FOOT PADS ARE MOUNTED TO THE FLOOR USING (4) 5/8" X 3 1/2" ANCHORS.
7) FLOOR LEVELNESS: REFER TO FLOOR LEVELING AND FLATTENING DETAIL LOCATED ON THIS SHEET.
8) THE MINIMUM REQUIREMENTS FOR COMPRESSIVE STRENGTH FOR THE FLOOR COVERING BASED ON SYMBIA COLLIMATOR CART SHALL BE 375 PSI. THIS IS BASE ON WORSE CASE LOADING WITH 2-HIGH ENERGY AND 2-MEDIMUM ENERGY COLLIMATORS PLACED ON THE COLLIMATOR CART.

STRUCTURAL NOTES

1) THE CUSTOMER/CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL SUPPORT MEMBERS AND NEEDED HARDWARE FOR THE INSTALLATION OF THE SIEMENS EQUIPMENT.

2) THE OVERHEAD STRUCTURAL SUPPORT SYSTEM SHALL BE FIXED, RIGID AND BRACED FOR SWAY.

3) ALL STRUCTURAL SUPPORT MEMBERS SHALL BE TRUE, SQUARE, LEVEL, PARALLEL AND COPLANAR WITH RESPECT TO EACH OTHER, WITH A HORIZONTAL STRUCTURAL SUPPORT MEMBER TO BE LOCATED AND SET WITH A TRANSIT.

4) ALL STRUCTURAL SUPPORT DETAILS SHOWN ARE SAMPLE DETAILS BASED UPON TYPICAL AND STANDARD BUILDING PRACTICES AND ARE NOT INTENDED AS ACTUAL CONSTRUCTION DETAILS. ALL CONSTRUCTION DETAILS AND SUPPORT CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER AT THE CUSTOMER'S EXPENSE. IN THE EVENT AN EXISTING SUPPORT SYSTEM IS TO BE USED, IT WILL BE THE CUSTOMER'S RESPONSIBILITY TO VERIFY THE INTEGRITY OF THAT SYSTEM.

5) MOUNTING PLATES, FRAMES, AND HARDWARE SUPPLIED BY SIEMENS AS DETAILED IN THIS DRAWING SET ARE INSTALLED BY SIEMENS UNLESS OTHERWISE REQUIRED. ANY DEVIATION FROM THE PROVIDED MATERIALS OR MOUNTING METHODS MUST BE DESIGNED AND DOCUMENTED BY THE STRUCTURAL ENGINEER OF RECORD. ALTERNATE MOUNTING MATERIALS (I.E. ANCHORS, THREADED ROD, BACKING PLATES, ETC.) MUST BE SUPPLIED BY THE CUSTOMER/CONTRACTOR. SIEMENS MAY REQUIRE ASSISTANCE FROM THE CUSTOMER/CONTRACTOR WITH INSTALLATION WHEN UTILIZING ALTERNATE MOUNTING MATERIALS.

6) ALL CEILING FIXTURES (I.E. AIR SUPPLY GRILLES, AIR RETURN GRILLES, EXHAUST GRILLES, SPRINKLER HEADS, INCANDESCENT AND FLUORESCENT LIGHT FIXTURES, INTERCOM SPEAKERS, MEDICAL GAS COLUMNS, ETC.) SHALL BE INSTALLED FLUSH MOUNTED WITH THE FINISHED CEILING TO PROVIDE FREE AND UNRESTRICTED TRAVEL OF THE SMS CEILING MOUNTED EQUIPMENT.

7) THE BOTTOM SIDE OF THE UNISTRUT CEILING GRID AND ANY CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED FLUSH WITH THE FINISHED CEILING. THE CUSTOMER/CONTRACTOR SHALL ALSO PROVIDE COVERSTRIPS FOR THE UNISTRUT.

8) THE STRUCTURAL PLANNING AS SHOWN ON THE 1/4" STRUCTURAL PLAN HAS BEEN COORDINATED WITH THE EQUIPMENT LOCATION AS SHOWN ON THE 1/4" EQUIPMENT LAYOUT PLAN. FOR THIS REASON, ANY DEVIATIONS FROM THE STRUCTURAL PLANNING AS SHOWN MUST BE APPROVED BY SMS PLANNING DEPARTMENT.

9) THE STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAIL OF FLOOR, WALL AND CEILING STRUCTURES IN ACCORDANCE WITH THE WEIGHTS, MOMENTS AND FORCES AS SHOWN ON OUR STRUCTURAL CALCULATIONS, OR INFORMATION,IN CONSIDERATION OF FORCES AS DETERMINED PER LOCAL GOVERNING BUILDING CODES.

BASE FRAME FOOT PAD

EACH PAD SURFACE HAS AN AREA OF 30.16 SQ IN. LOAD PER PAD IS APPROXIMATELY 40 LBS./SQ. IN.

8 5/8"
4"

TOP VIEW

FLOOR SURFACE
5/8" X 4" HOLE FROM TOP SURFACE
5/8"
4" MIN
5/8" 3 1/2" ANCHOR"

SIDE VIEW
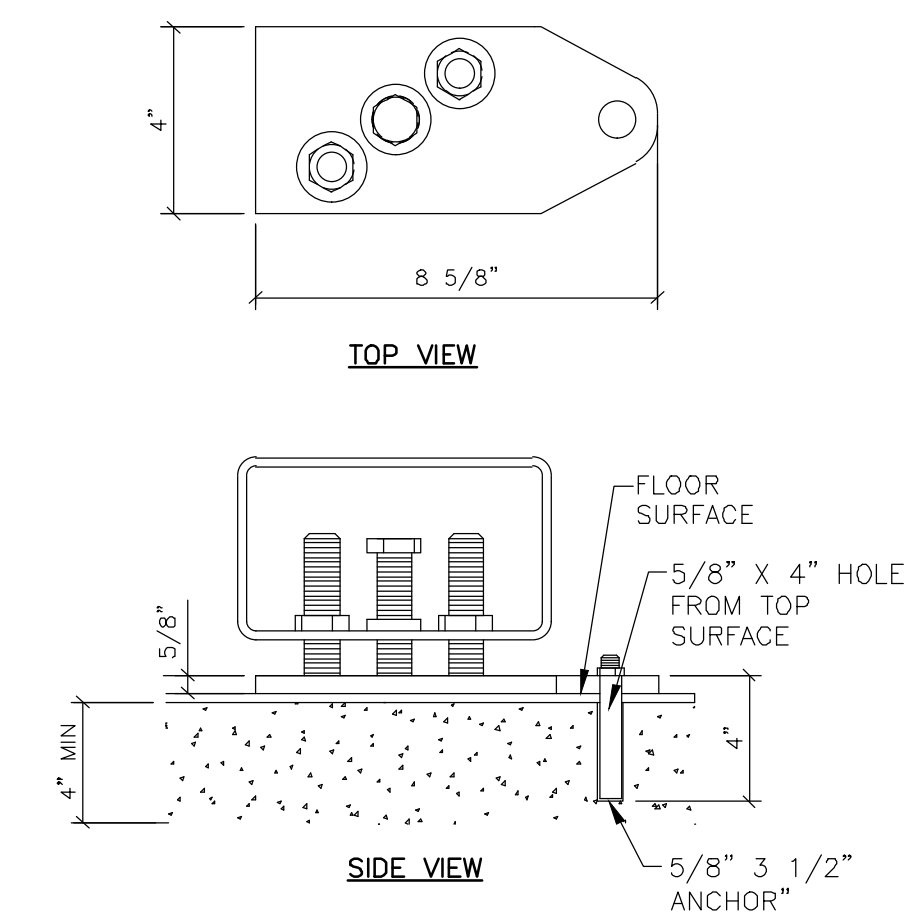
CONCRETE SLAB MUST BE A MINIMUM OF 4" THICK.
(4) 5/8" HOLES, 4" DEEP DRILLED FROM THE TOP SURFACE OF EACH OF THE FOUR BASE FRAME FOOT PADS.

REAR PHS CG 415.2 LBS.
1712 LBS. FIXED
2058 LBS. FIXED
5'-7 3/4"
4'-10"
4'-0 3/4"
1'-3 3/8"
1'-3 3/8" RETAINER PLATE
1712 LBS. FIXED
RETAINER PLATES
2'-5 3/8"
5'-4 1/8"
CENTER OF CT FOV
6'-1"
3'-10"
2'-5"
GANTRY CG 7963 LBS.
2058 LBS. FIXED
CENTER OF NUC FOV (ORIENTATION POINT)
1'-5 1/8"
3'-8 7/8" FRONT PHS CASTER
4'-11 13/16"
1'-2 5/16"
879 LBS. CASTER (1093 LBS. WITH ICC/AQC OPTION)
FRONT PHS WEIGHT 3145.2 LBS.
3'-1 1/8"
3'-11 13/16" FRONT PHS CASTER
377 LBS. CASTER (468 LBS. WITH ICC/AQC OPTION)
377 LBS. (468 LBS. WITH ICC/AQC OPTION)
2"
1'-0 3/4"
2'-1 7/16"
PIVOT ASM

FRONT PHS CASTER LOADS EXCLUDE PATIENT WEIGHT.

5 LOAD CONCENTRATIONS SCALE: 3/8"=1'-0"

THE GANTRY IS FULLY ADJUSTABLE AT ALL FOUR BASE FRAME PADS. THE BASE FRAME FOOT PADS ARE MOUNTED TO THE FLOOR USING 5/8" X 3 1/2" ANCHORS. THE BASE FRAME FOR THE GANTRY SITS ON TOP OF THE FOOT PADS. LEVELING SCREWS ARE THEN USED TO LEVEL THE GANTRY FRONT TO BACK AND SIDE TO SIDE. ONCE THE GANTRY IS LEVEL, LOCKING SCREWS ARE TIGHTENED AT ALL FOUR PADS.

BACK
4'- 0 3/4"
LOCKING SCREW (X8)
ANCHOR HOLE LOCATION-BASE FRAME FOOT PAD (X4)
2'-5 3/8"
LEVELING SCREW (X4)
5'-7 3/4"

FRONT
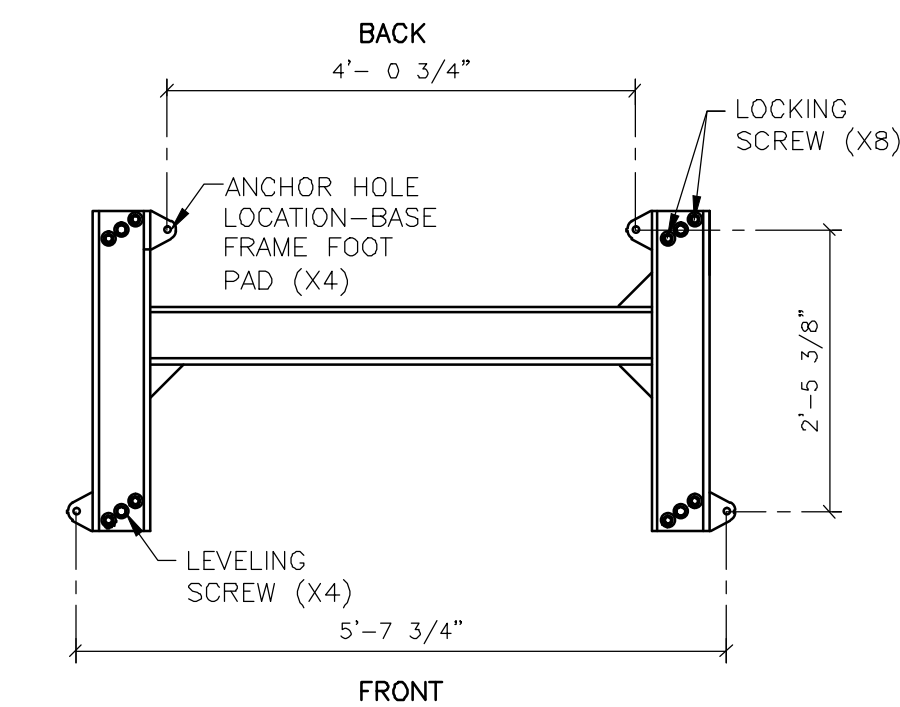
1 SYMBIA T BASE FRAME SCALE: NO SCALE

1/2"ø HOLES IN CABINET BASE FOR FLOOR MOUNTING
2'-5 1/2"
2'-3 5/8"
15/16"
11 1/2"
11 3/4"
6 1/4"
2 3/4"
SPACER
OPENING IN CABINET BASE FOR CABLE INLET
7"
4 5/16"
4 5/16"
1 3/4"

TOP VIEW

1'-2 9/16"
2 1/4"
3/8"ø HOLE IN REAR OF CABINET FOR WALL ANCHORING
2'-8 5/16"
OPENING IN REAR OF CABINET FOR CABLE INLET
13/16"
7 1/16"
1 13/16"
3 1/8"
2 3/8"

FRONT VIEW
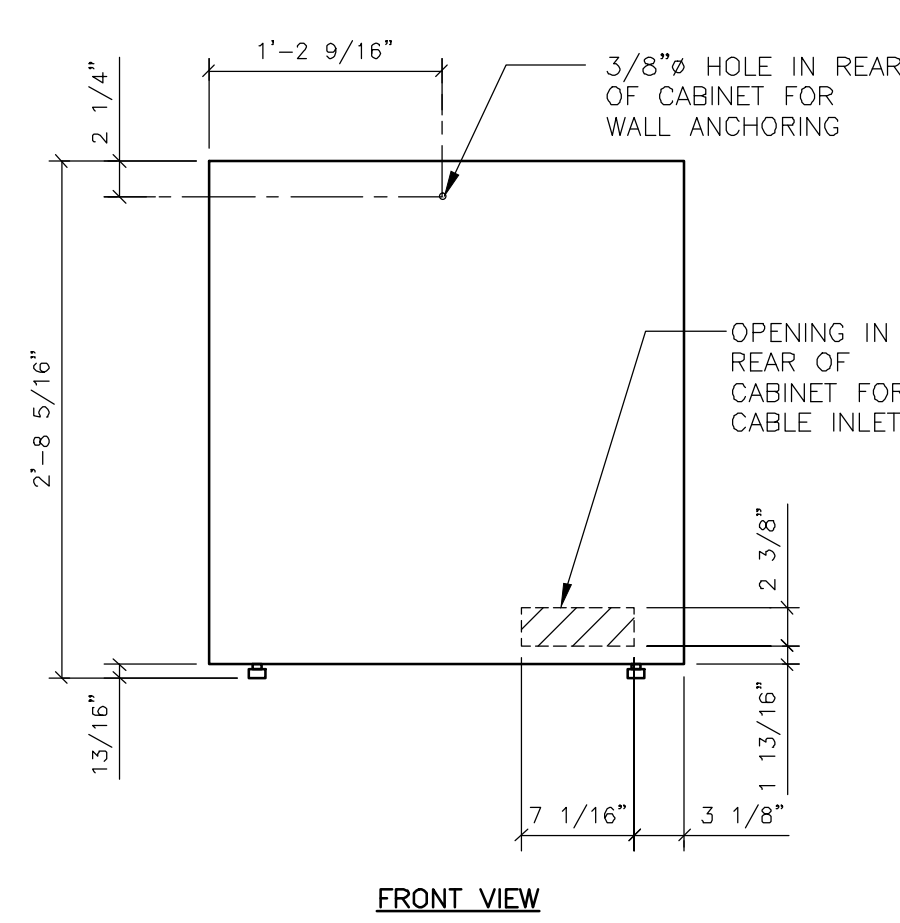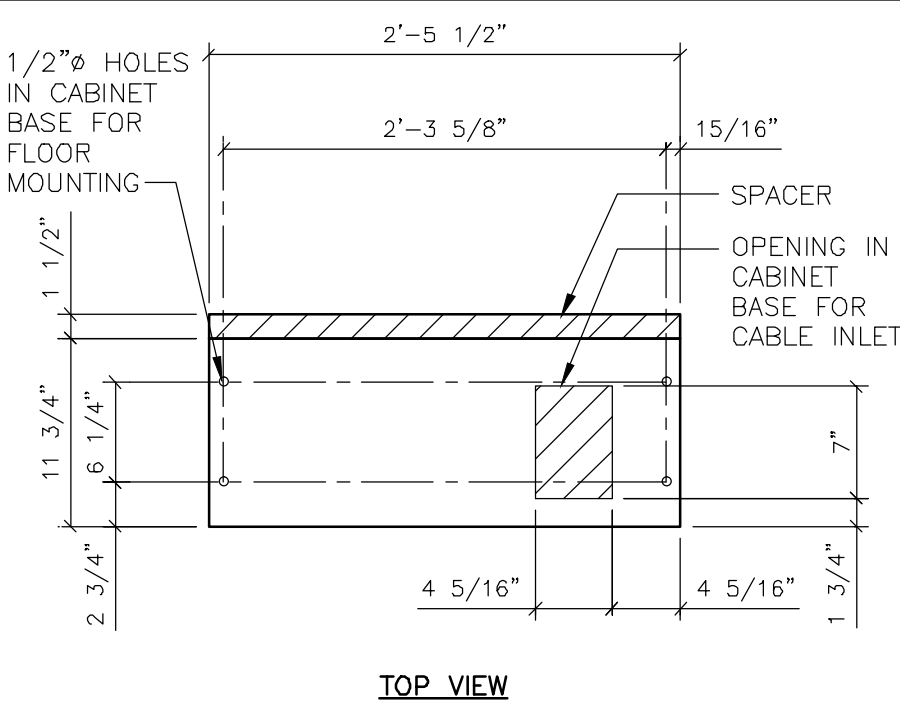
ANCHORING REQUIREMENTS:
THE LINE CONNECTION BOX (LCB) STANDS ON THE FLOOR. IT IS TO BE ANCHORED TO THE WALL THROUGH THE REAR COVER TO PREVENT TIPPING. BOLTING THE LCB TO THE FLOOR IS ONLY NECESSARY WHEN LOCAL OR NATIONAL REGULATIONS REQUIRE IT (EXAMPLE: EARTHQUAKE ZONES). SCREWS AND ANCHORS FOR MOUNTING ARE TO BE SUPPLIED BY THE CUSTOMER/CONTRACTOR.

6 LCB CABINET DETAIL SCALE: FULL

---

374 LBS.
254 LBS.
WHEEL CENTER
2'-8 5/8"
2'-5 3/8"
1'-7 3/8"
2'-1 3/8"
418 LBS.
3 5/8"
1'-0"
284 LBS.
2'-0 3/8"

CART IS AVAILABLE IN LEFT AND RIGHT CONFIGURATIONS DEPENDING ON BED PIVOT.

WEIGHT AND LOCATION OF CG VARIES WITH COLLIMATOR TYPE. HEAVIEST LOAD SHOWN:

1-SET HIGH ENERGY
1-SET MEDIUM ENERGY
TOTAL WEIGHT: 1330 LBS.

TOP VIEW

3'-3 7/8"
2'-4 3/4"
3'-2" VARIES WITH CART HEIGHT
3'-3 7/8"
2'-0 3/8"
3'-5"
3'-11 7/16"
2'-8 5/8"

SIDE VIEW   **BACK VIEW**

2 COLLIMATOR CART SCALE: 1/2"=1'-0"

2'-9 7/8"
2'-9 7/8"
7 11/16"
7 11/16"
3 3/16"
3 3/16"
3 9/16"
3 9/16"
1 13/16"
1'-3 3/8"
RETAINER PLATE 4 ANCHORS
RETAINER PLATES 2 ANCHORS EACH
2'-0 3/8"
2'-0 3/8"
2'-5 3/8"
5'-4 1/8"
1 13/16"
ORIENTATION POINT
FIXED GUIDE PIN FOR RIGHT PHS PIVOT.
ANCHORS USED FOR LEFT PHS PIVOT.
ANCHORS USED FOR RIGHT PHS PIVOT.
6 11/16"
7'-6 11/16"
7'-10 1/2"
1 7/8"
1 7/8"
FIXED GUIDE PIN FOR LEFT PHS PIVOT.
13/16"
13/16"
1 15/16"
1 15/16"
11 11/16"
11 11/16"

4 ANCHOR LOCATION SCALE: 3/8"=1'-0"

1'-1 15/16"
7'-8 5/8"
4'-4 1/16"
5'-6 1/16"
5'-4 1/8"
CASTER LOCATIONS.
FIXED GUIDE PIN FOR RIGHT PHS PIVOT.
2'-1 11 3/8"
8'-2 5/8"
11 11/16"
1'-0 11/16"

3 STANDARD RIGHT ANGLE PHS PIVOT SCALE: 3/8"=1'-0"

FINISHED ROOM HEIGHT

SYMBIA T, T2, T6 OR T16	MINIMUM 8'-0"
SYMBIA T, T2, T6 OR T16 WITH CEILING MOUNTED COMPONENT OTHER THAN RADIATION ON LAMP	MINIMUM 8'-0" MAXIMUM 12'-0"

CONSIDER THE WARNING LIGHT WILL BE PLACED ON TOP OF THE PATIENT BOOM. ANY OTHER CEILING MOUNTED COMPONENT MUST BE PLACED AS TO NOT COLLIDE WITH WARNING LIGHT.

SYMBIA T, T2, T16 REV 3

SIEMENS

SYMBIA T, T2, T6 AND T16
TYPICAL FINAL DRAWING SET

PROJECT #: **13042**

SHEET: **S-101**

SHEET 3 OF 6 DRAWN BY:

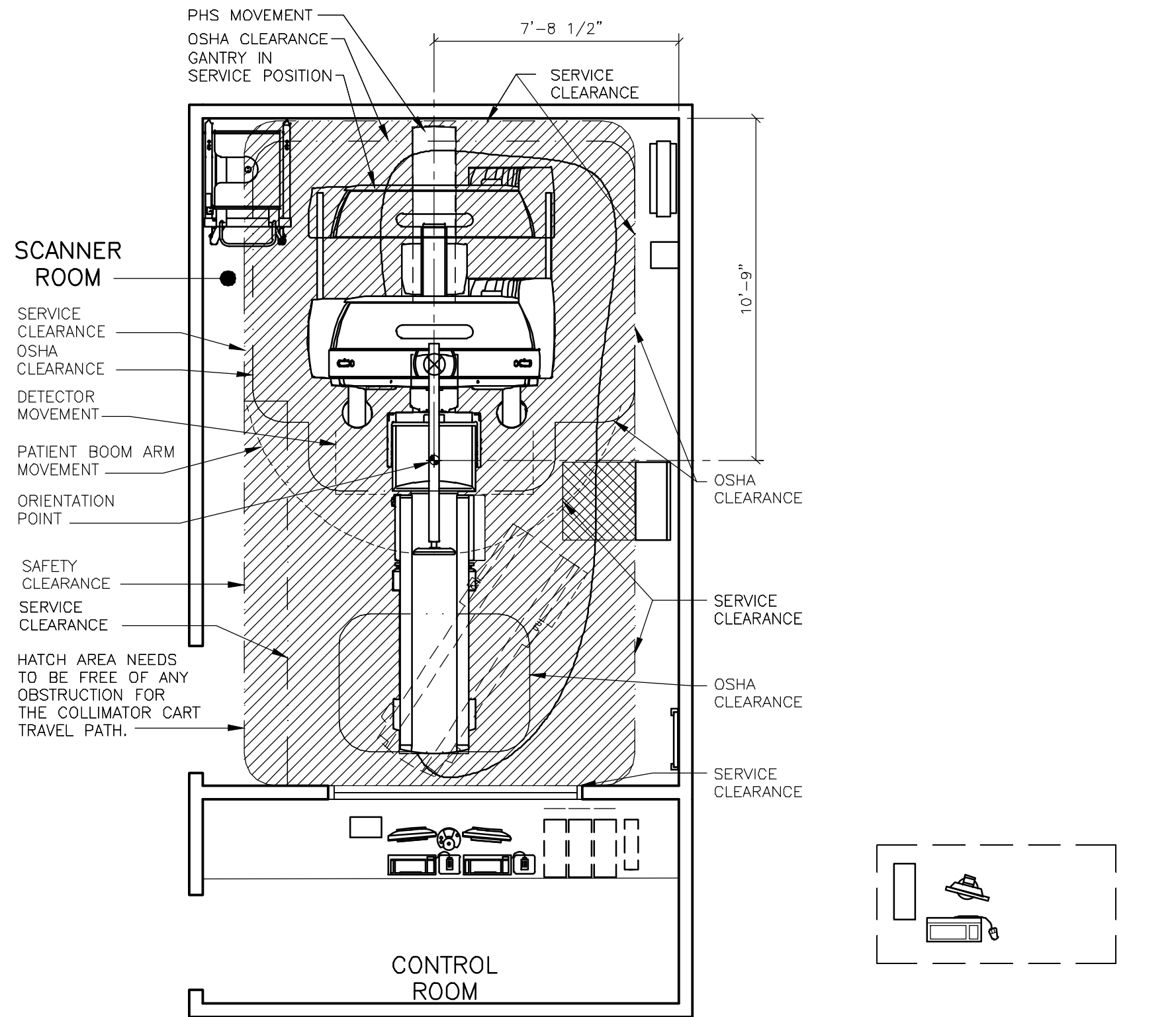| SYM	DATE	DESCRIPTION
△	N/A	TYPICAL REV 1

-ISSUE BLOCK-

SCALE: AS NOTED   REF #:   DATE:

ATTENTION:

-THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.
-THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

-IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.
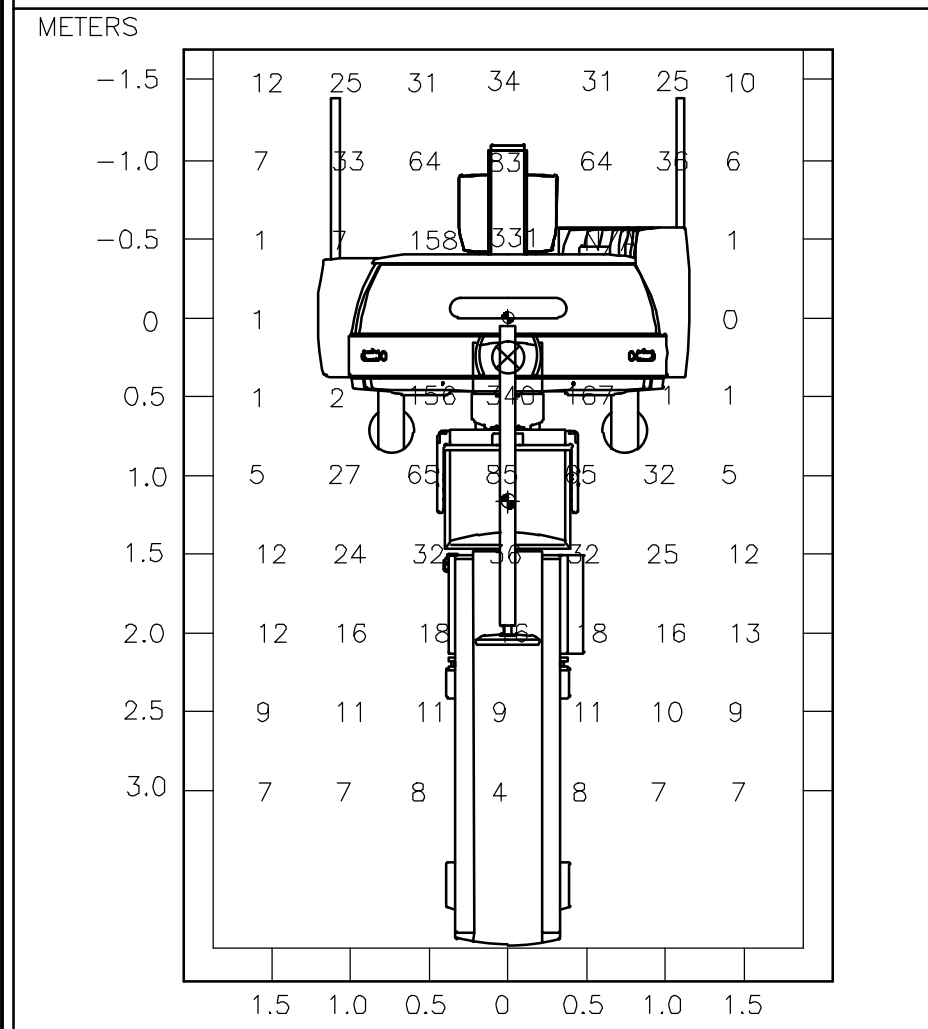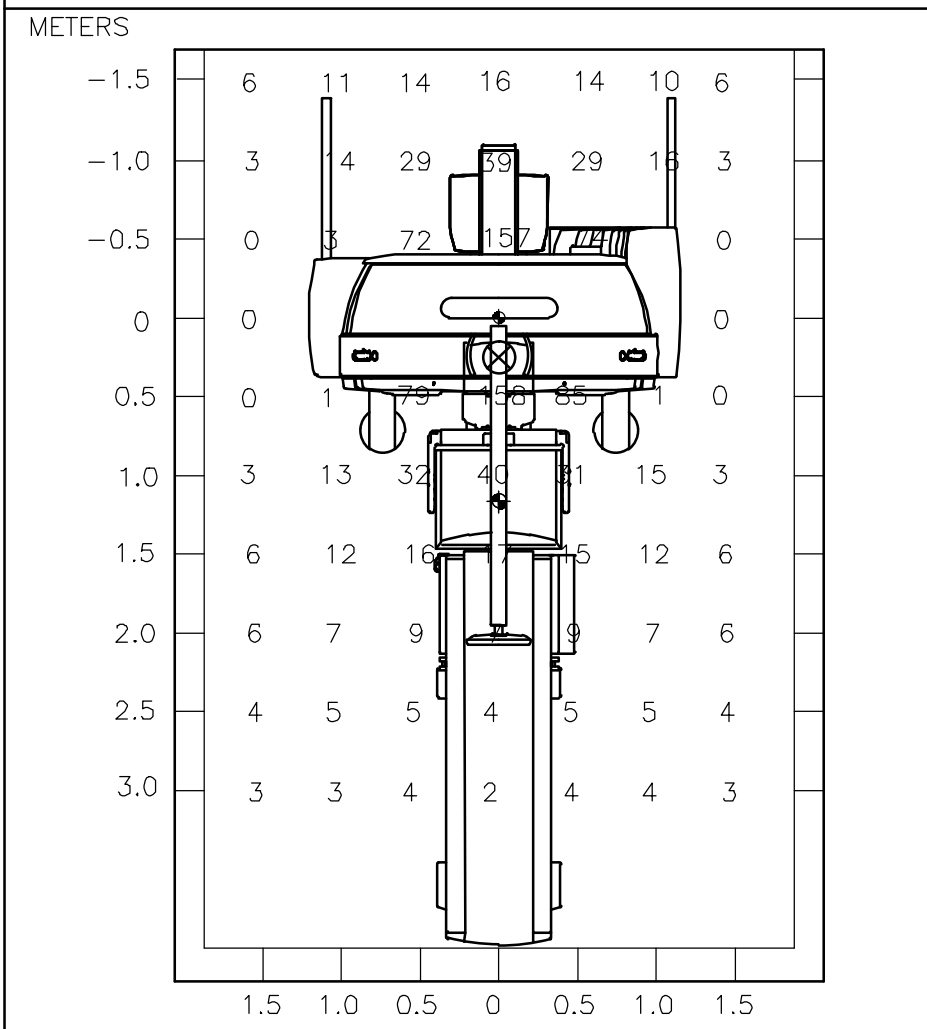
-ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
-THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

PREPARATION/PROCEDURE FOR FLOOR LEVELING AND FLATTENING

PREPARATION LEVELING AND FLATTENING THE FLOOR AREA

THE SCANNER ROOM FLOOR MUST BE LEVELED AND THE SURFACE MUST BE SMOOTH. ANY DEVIATION IN LEVELS WILL HAVE A DETRIMENTAL EFFECT ON THE PATIENT HANDLING TABLE (PHS) TO THE GANTRY ALIGNMENT WHICH MAY EFFECT COLLIMATOR EXCHANGE.

IT IS RECOMMENDED THAT THE FLOOR IN THE ENTIRE ROOM WILL BE LEVELED AND FLATTENED ACCORDING TO THE SIEMENS SPECIFICATIONS GIVEN BELOW. IT IS IMPERATIVE THAT THE SYSTEM INSTALLATION AREA, AS INDICATE BY THE HATCH AREA BELOW, IS LEVELED AND FLATTENED.

UPON COMPLETION OF THE INSTALLATION FLOOR AREA, VERIFY THE SURFACE FLATNESS, USING A STRAIGHT EDGE 4'-0" IN LENGTH OR LONGER.

7'-6" (90")
3'-5" (41")
4'-3" (51")
12'-6" (150")

AREA
12'-6" (150") X 7'-6" (90")

FLOOR CHECKING PROCEDURE

THIS PROCEDURE PROVIDES DETAILS ON HOW TO VERIFY THAT THE FLOOR IS BOTH FLAT AND LEVEL BEFORE SYSTEM INSTALLATION BEGINS. THIS PROCEDURE SHOULD BE COMPLETE BY THE SIEMENS PROJECT MANAGER AND CUSTOMER/CONTRACTOR. MEASUREMENTS SHOULD BE TAKEN LEFT TO RIGHT OR RIGHT TO LEFT, FRONT TO BACK OR BACK TO FRONT AND DIAGONALLY IN EITHER DIRECTION. REFER TO THE DIAGRAM ON THE LEFT.

SLOPE – FLOOR SLOPE SHOULD BE WITHIN ±1" OVER 12'-6" (150")

1) PLACE LASER LEVEL ON FLOOR.
2) MAKE SURE THAT THE LASER LEVELING DEVICE IS ABSOLUTELY LEVEL.
3) TURN ON LASER.
4) USE A RULE TO MEASURE THE HEIGHT OF THE LASER LIGHT FROM THE FLOOR NEXT TO THE LASER LEVEL. THIS IS REFERENCE POINT ON THE RULER FOR ALL OTHER MEASUREMENTS.
5) KEEP THE LASER ON AND USE A RULE TO MEASURE THE HEIGHT OF THE LASER LIGHT BEAM AT VARIOUS POINTS 12'-6" (150") FROM THE LASER. THE MEASUREMENT FROM THE FLOOR SHOULD BE WITHIN 1" OF THE ORIGINAL LASER LIGHT REFERENCE POINT. REPEAT AT VARIOUS POINTS AND DIRECTIONS REPRESENTED AS HATCH AREA IN THE DIAGRAM TO THE LEFT.

RULER
LEVEL BUBBLE
SLOP OUT OF ACCEPTABLE LIMIT
REFERENCE POINT
LASER LIGHT
LASER LEVEL
1" MAXIMUM DEVIATION
CONCRETE FLOOR
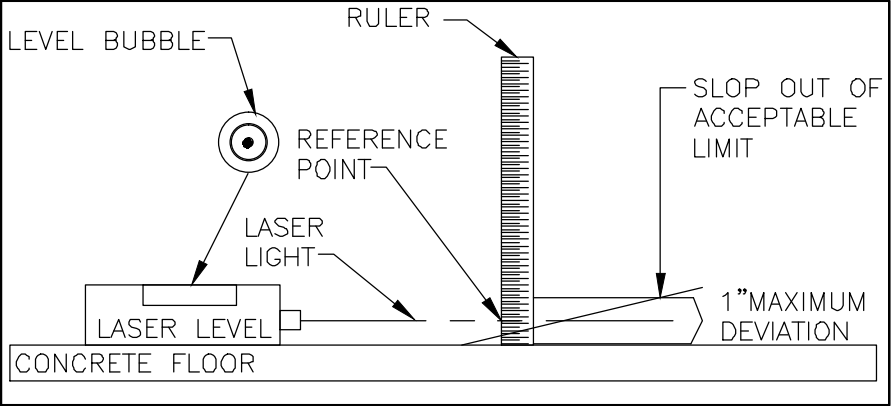
FLATNESS – FLOOR SURFACE SHOULD BE SMOOTH AND HAVE NO MORE THEN 3/16" DEVIATION IN ANY 4'-0" (48") SEGMENT IN ENTIRE THE SCANNER ROOM AREA.

1) VERIFY SURFACE FLATNESS FOR THE ENTIRE SCANNER ROOM AREA, USE STRAIGHT EDGE OR BUBBLE LEVEL THAT IS 4'-0" (48") LONG.

LEVELING SPECIFICATIONS

FLOOR LEVELING AREA	12'-6" (150") X 7'-6" (90").
SLOPE	WITHIN ±1" OVER 12'-6" (150").
FLATNESS	FLOOR SURFACE SHOULD BE SMOOTH AND HAVE NO MORE THAN 3/16"DEVIATION IN ANY 4'-0" (48") THROUGHOUT THE SCANNER ROOM OR SYSTEM INSTALLATION AREA.
FLOOR SURFACE	FLOOR SHOULD HAVE ONE SINGLE POURED SURFACE. NO FILL MATERIAL SHOULD BE USED TO COMPENSATE FOR HOLES OR DEPRESSIONS IN THE FLOOR SURFACE.

LEVEL BUBBLE
LASER LEVEL
CONCRETE FLOOR
3/16" MAXIMUM
MEASUREMENT SPAN
4'-0" (48")

IT IS THE CUSTOMER/CONTRACTOR'S RESPONSIBILITY IF ANY MEASUREMENT OUT OF ACCEPTABLE LIMITS ARE AN INDICATION THAT THE FLOOR NEEDS TO BE LEVELED WITH SOME SORT OF LEVELING COMPOUND.

WHERE THE UNACCEPTABLE DEVIATION EXIST, THE WHOLE (MINIMUM SYSTEM AREA) SHOULD BE RE-SUFACED.

SYMBIA T, T2, T6, T16
REV 3

SIEMENS
SYMBIA T, T2, T6 AND T16
TYPICAL FINAL DRAWING SET

PROJECT #: **13042**
SHEET: **S-501**

SYM	DATE	DESCRIPTION
△	N/A	TYPICAL REV 1

–ISSUE BLOCK–

SHEET 4 OF 6
SCALE: AS NOTED
REF. #:
DRAWN BY:
DATE:

ATTENTION:

–THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.
–THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

–IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

–ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
–THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

ELECTRICAL RACEWAY PLAN

DEDICATED POWER SOURCE, SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR. SEE "POWER SCHEDULE".

BE IN COMPLIANCE WITH

ORIENTATION POINT

SCANNER ROOM

CONTROL ROOM

DOOR SWITCHES ARE OPTIONAL. (PER LOCAL CODE REQUIREMENTS).

SCALE: 1/4" = 1'-0"

AUXILIARY WIRING

INCANDESCENT "X-RAY ON" WARNING LIGHT

ABOVE DOOR

SUPPLIED BY CUSTOMER/CONTRACTOR

LIGHTING PANEL

HOT

RELAY 24 V AC NORMALLY OPEN

POTENTIAL-FREE CONTACT

NEUTRAL

6 FT. PIGTAILS

CONNECTION POINTS IN GANTRY (D301) WITH WIRES SUPPLIED BY CUSTOMER/ CONTRACTOR

SIEMENS SYMBIA GANTRY

BY CUSTOMER/CONTRACTOR

RELAY WITH A 24 VOLT AC SUPPLIED BY ELECTRICAL CONTRACTOR. SIEMENS TO PROVIDE CONTROL SIGNAL TO RELAY. ALL OTHER ITEMS ARE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.

NOTE: A WARNING LIGHT IS INCLUDED WITH THE SYMBIA SYSTEM, LOCATED ON TOP OF PATIENT BOOM SWING ARM.

WARNING LIGHT AND DOOR SWITCH SCHEMATIC

| 1 | AUXILIARY WIRING | SCALE: NONE |

CABLE ENTRANCES

CABLES MAY ENTER FROM CONDUITS BENEATH FLOOR, SURFACE MOUNTED DUCT, OR FLUSH IN FLOOR TRENCH. PLEASE REFER TO SITE SPECIFIC SHEET E-101 AND E-102 TO SEE HOW CABLES ACCESS GANTRY.

EXAMPLE SHOWN IS CONDUITS BENEATH FLOOR:

RIGHT SIDE VIEW

BACK FRONT

CT SPECT

PATIENT BED

NOTE: IF USING SURFACE MOUNTED DUCT, CABLES WILL ENTER FROM BEHIND GANTRY INTO JUNCTION BOX.

JUNCTION BOX (SIEMENS SUPPLIED)

5"⌀CORE DRILL WITH PULL BOX UNDER FLOOR SLAB.

3" CONDUIT FOR
1x FIBER-OPTIC
2x DATA
1x CATEGORY 5
1x ESTOP
1x DVD (OPTION)
LEAVE 2' LOOSE CABLE FOR CONNECTION.

(2) 1/2" CONDUITS FOR RADIATION ON LAMP AND DOOR SWITCH. LEAVE 10' LOOSE CABLE FOR CONNECTION

1 1/4" CONDUIT FOR CT POWER. LEAVE 2' LOOSE CABLE FOR CONNECTION.

1/2" CONDUIT FOR NUC POWER. LEAVE 2' LOOSE CABLE FOR CONNECTION.

TRENCH/DUCT REQUIREMENTS

IF USING TRENCH OR SURFACE MOUNT DUCT, VOLTAGE SUPPLY CABLES AND/OR HIGH VOLTAGE CABLES MUST BE LAID SEPARATELY FROM THE DATA CABLES. 6 1/4" X 2" TRENCH OR DUCT MUST BE SUPPLIED WITH 2 METAL DIVIDERS TO KEEP CABLES SEPARATED.

HIGH VOLTAGE AND SUPPLY CABLES:
ON SITE POWER LINE CABLE TO THE SYMBIA T, T2, T6 OR T16 SYSTEM.

FOR SYMBIA T, T2, T6 AND T16 SYSTEMS:
THE VOLTAGE SUPPLY CABLE FROM THE LCB TO THE JUNCTION BOX FOR THE GANTRY.

6 1/4"

METAL DIVIDERS (REQUIRED)

HIGH VOLTAGE CABLES

VOLTAGE SUPPLY CABLES

6 1/4" x 2" TRENCH OR DUCT. METAL PARTITIONS SEPARATING CABLES IS REQUIRED.

DATA CABLES

ELECTRICAL LEGEND

SYM	SIZE	DESCRIPTION	REMARKS
		SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR	
A	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE IN SHOWN LOCATION.	ANCILLARY WIRING
B	8" x 8"	PULL BOX MOUNTED TO UNDERSIDE OF FLOOR SLAB WITH 5" CORE DRILL WITH SLEEVE THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN EXAM ROOM IN SHOWN LOCATION.	GANTRY CABLE ACCESS
DS	---	ETHERNET CONNECTION TO HOSPITAL NETWORK, EXACT LOCATION TO BE COORDINATED WITH SIEMENS PROJECT MANAGER.	DEDICATED RECONSTRUCTION SYSTEM WORKPLACE
HD1	---	FIXED POINT DESIGNATION, SAME PULL BOX/OPENING AS ICS.	
EPO	---	EMERGENCY POWER OFF BUTTON WITH PROTECTIVE COVER, MOUNTED ON WALL AT 5'-0" ABOVE FINISH FLOOR THAT PREVENTS RESETTING OF CIRCUIT BREAKER WHEN IN THE OFF POSITION. THERE SHALL BE AN EPO IN EACH ROOM OF THE SUITE WHERE SIEMENS EQUIPMENT IS LOCATED, EXACT LOCATIONS TO BE DETERMINED BY CUSTOMER/CONTRACTOR. SUPPLIED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE
ICS	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOOR LINE IN SHOWN LOCATION.	IMAGE CONSTRUCTION SYS
IRS	---	FIXED POINT DESIGNATION, SAME PULL BOX/OPENING AS ICS.	IMAGE RECONSTRUCTION SYS
LCB	AS REQUIRED	PULL BOX MOUNTED TO UNDERSIDE OF FLOOR SLAB WITH 6" SLEEVE THROUGH FLOOR SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	LINE CONNECTION BOX
MP	---	MAIN PANEL, WITH MAIN BREAKER FLUSH OR SURFACE MOUNTED. REFER TO POWER SCHEDULE.	SEE POWER SCHEDULE
SNW	---	ETHERNET CONNECTION TO HOSPITAL NETWORK, EXACT LOCATION TO BE COORDINATED WITH SIEMENS PROJECT MANAGER.	SYMBIA.NET WORKPLACE
SPS	AS REQUIRED	PULL BOX MOUNTED BELOW FLOOR SLAB WITH 3"⌀ SLEEVE THROUGH SLAB ENDING FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	UPS FOR SPECT
TF	AS REQUIRED	TRANSFORMER PROVIDING STEP DOWN POWER FOR THE SPECT UPS (SPS). EXACT LOCATION PROVIDED BY SIEMENS MEDICAL SOLUTIONS BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR DETERMINED BY CUSTOMER/CONTRACTOR BASED ON LOCATION OF MP AND SPS. SUPPLIED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE
HD2	---	FIXED POINT DESIGNATION, SAME PULL BOX/OPENING AS ICS.	
10 & 8	6" x 3 1/2"	ELECTRICAL DUCT THAT RUNS HORIZONTALLY ON THE WALL AT THE FLOOR LINE AND SURFACE MOUNTED ON FINISHED WALL AS SHOWN FOR EXCESS CABLE STORAGE.	RACEWAY
1	AS REQUIRED	CONDUIT FROM POWER SOURCE TO "MP" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
2	AS REQUIRED	CONDUIT FROM "MP" TO "TF" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
3	AS REQUIRED	CONDUIT FROM "TF" TO "SPS" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
4	1/2"⌀	CONDUIT FROM "SPS" TO "B" SIZED BY ELECTRICAL ENGINEER OF RECORD.	MAXIMUM CONDUIT LENGTH 76'-0"
5	1 1/4"⌀	CONDUIT FROM "MP" TO "A" (LCB) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
6	1 1/4"⌀	CONDUIT FROM "LCB" TO "B" SIZED BY ELECTRICAL ENGINEER OF RECORD.	MAXIMUM CONDUIT LENGTH 76'-0"
7	AS REQUIRED	CONDUIT FROM "MP" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
8	AS REQUIRED	CONDUIT FROM "EPO" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
9	AS REQUIRED	CONDUIT FROM "EPO" TO "SPS" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
10	1/2"⌀	CONDUIT FROM "B" TO "DOOR SAFETY SWITCH" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
11	1/2"⌀	CONDUIT FROM "B" TO "WARNING LIGHT" (X-RAY ON) SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
12	(2) 3"⌀	CONDUIT "B" TO "ICS".	MAXIMUM CONDUIT LENGTH 76'-0"
13	1 1/2"⌀	CONDUIT FROM "LCB" TO "UPS".	MAXIMUM CONDUIT LENGTH 76'-0"

CONTRACTOR SUPPLIED CABLES

FROM	VIA	TO	DESCRIPTION	REMARKS
POWER SOURCE	1	MP	3-PHASE CONDUCTORS, 1 NEUTRAL AND GROUND ALL TO BE THE SAME SIZE. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	2	TF	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
TF	3	SPS	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
SPS	4	B	POWER CABLE FOR SPECT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	5,A	LCB	POWER CABLE FOR CT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
LCB	6	B	POWER CABLE FOR CT PORTION OF SYMBIA. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	7	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	8	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	9	SPS	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
B	10	DOOR SAFETY SWITCH	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101
B	11	WARNING LIGHT	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE SHEET E-101

SIEMENS SUPPLIED CABLES

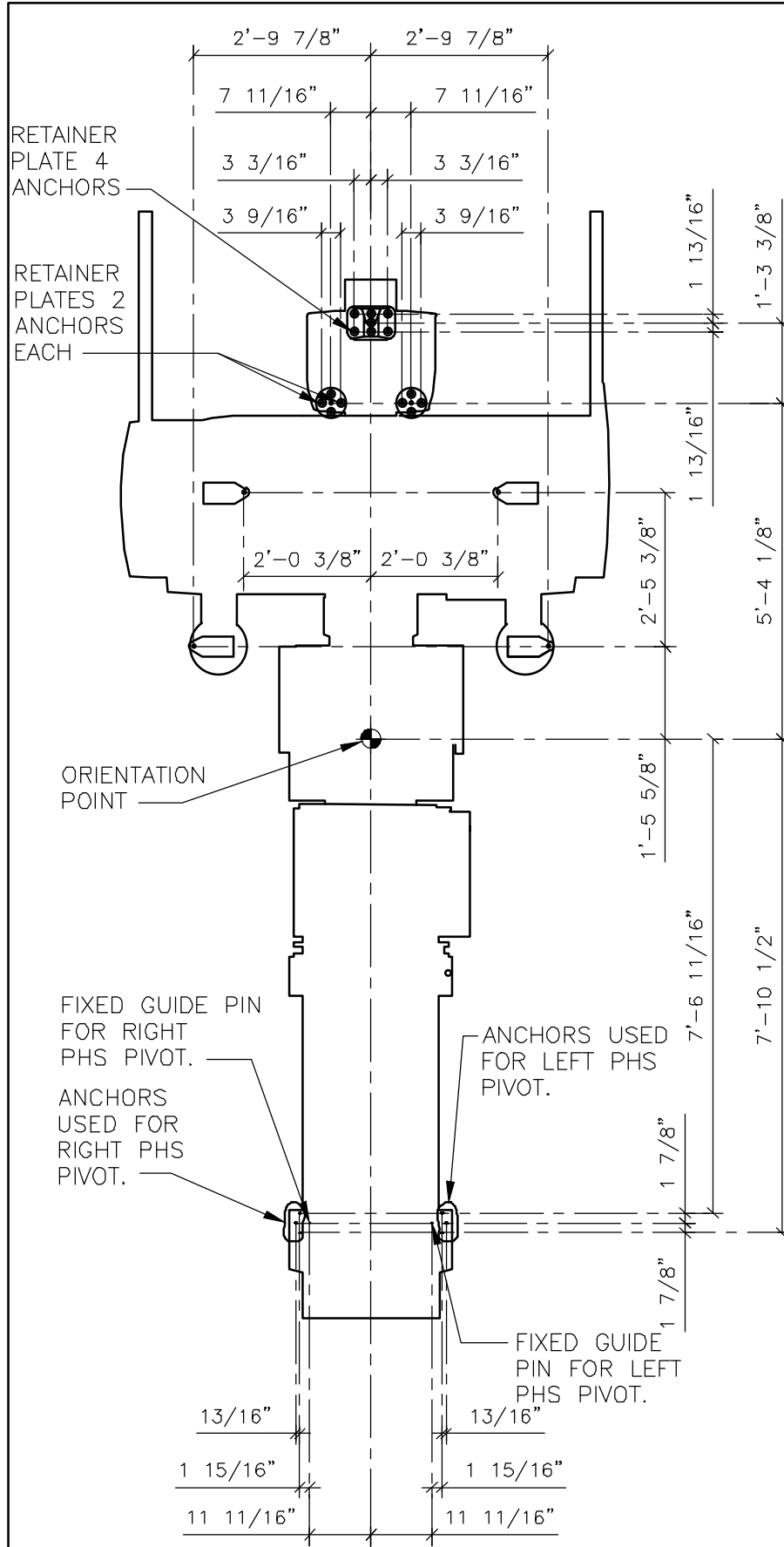| FROM	VIA	TO	DESCRIPTION	REMARKS
ICS/IRS	12	B	POWER CABLE: 300V.	MAXIMUM LENGTH 82'-0"
ICS/IRS	12	B	CAT 5 CROSS OVER CABLE; 150V.	MAXIMUM LENGTH 82'-0"
ICS/IRS	12	B	UNMARKED CABLE.	MAXIMUM LENGTH 82'-0"
ICS/IRS/DVD	12	B	DVD CABLE, DATA CABLE, FIBER CABLE: 30V.	MAXIMUM LENGTH 82'-0"
LCB	13	UPS	POWER CABLE: 300V.	MAXIMUM LENGTH 82'-0"

FINISHED ROOM HEIGHT

SYMBIA T, T2, T6 OR T16	MINIMUM 8'-0"
SYMBIA T, T2, T6 OR T16 WITH CEILING MOUNTED COMPONENT OTHER THAN RADIATION ON LAMP	MINIMUM 8'-0" MAXIMUM 12'-0"

CONSIDER THE WARNING LIGHT WILL BE PLACED ON TOP OF THE PATIENT BOOM. ANY OTHER CEILING MOUNTED COMPONENT MUST BE PLACED AS TO NOT COLLIDE WITH WARNING LIGHT.
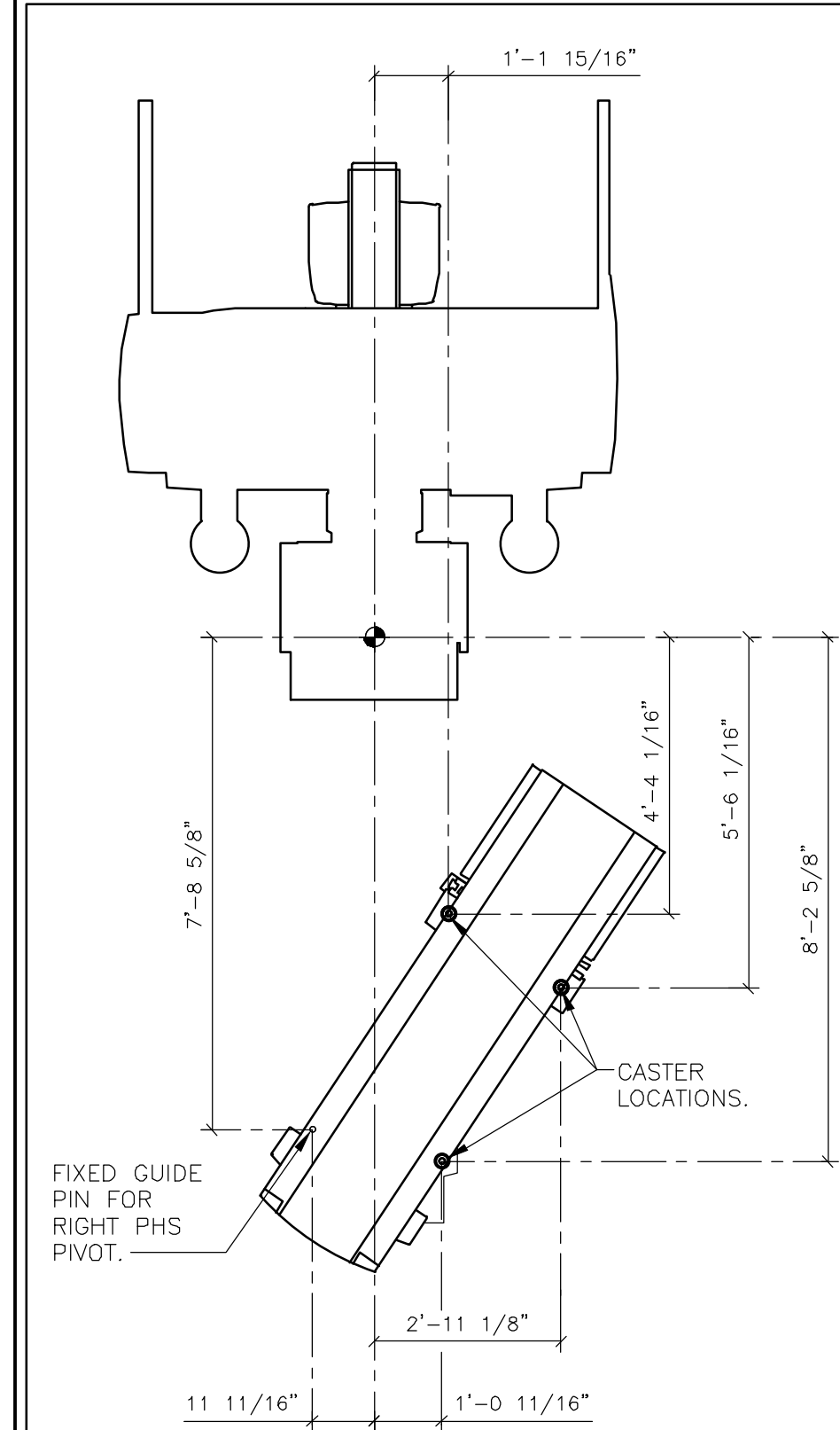

ELECTRICAL NOTES

1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY TO ANSI, IEEE AND NEMA STANDARDS. WHERE APPLICABLE, PROVIDE ONLY MATERIALS AND PRODUCTS THAT ARE U.L. LISTED AND LABELED. CUSTOMER'S/CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF NECA STANDARD OF INSTALLATION.

2) QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT TO THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF EQUIPMENT, OR THE PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SMS PROGRAM MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY SMS PROJECT MANAGER.

3) POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS MEDICAL SOLUTIONS EQUIPMENT SHALL BE DEDICATED SERVICES KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING AND EQUIPMENT, SUCH AS: ELEVATORS, GENERATORS, PUMPS, HVAC SYSTEMS, ETC. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER/UTILITY COMPANY FIELD REPRESENTATIVE.

4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SIEMENS MEDICAL SOLUTIONS BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES THE FOLLOWING BUT IS NOT LIMITED TO UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING.

5) RACEWAY AND CONDUIT NOTES: RACEWAY SHALL BE ELECTRIC METALLIC TUBING (EMT) FOR RIGID CONDUIT WORK, OR WHERE SHORT OFF-SET CONNECTIONS ARE REQUIRED LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL BE USED. FIELD BENDS SHALL NOT BE LESS THAN AS SHOWN IN TABLE 346-10 OF THE NATIONAL ELECTRICAL CODE. PROVIDE A JETLINE "SUPER TRUE TAPE", OR EQUIVALENT CONDUIT MEASURING TAPE FISH LINE IN ALL RACEWAYS AND CONDUITS. CONDUIT BODIES SHALL NOT BE USED. WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE, AN INSULATED THROAT CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. CONNECTORS SHALL BE DOUBLE SET SCREW TYPE, STEEL CONCRETE TIGHT.
KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES OR STEAM AND HOT WATER PIPES. INSTALL RACEWAY RUNS ABOVE WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE MAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAY.
CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE INDICATED. THE CONTRACTOR SHALL MAKE CERTAIN THAT ANY CONDUIT/RACEWAY RUNS CONTAINING SIEMENS MEDICAL SOLUTIONS CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL DETAILS.
PROVIDE ENCLOSED METAL RACEWAY SYSTEM (WIRE DUCT) WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT (FOR POWER AND SIEMENS MEDICAL SOLUTIONS CABLING). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. FOR UL CERTIFIED SYSTEMS, THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM INVESTIGATION OF THIS EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF CIRCUITS, AS THEY CAN BE IN THE SAME RACEWAY.
PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF OPENINGS TO BE CUT IN FIELD ARE TO BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE IN- FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS.

6) WIRING: WIRING SHALL BE INSTALLED IN METAL RACEWAY, 600 VOLT CLASS, STRANDED TYPE THHN-THWN, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 75° C. (165° F). SIZED AS INDICATED. THE CUSTOMER/CONTRACTOR SHALL LEAVE MINIMUM 10 FT. WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY SIEMENS MEDICAL SOLUTIONS.

7) IN ADDITION TO THE CIRCUIT BREAKER LOAD CURRENT RATING, CONSIDERATION MUST ALSO BE GIVEN TO SELECTING CIRCUIT BREAKERS THAT HAVE A HIGH ENOUGH SHORT CIRCUIT CURRENT WITHSTAND RATING TO SAFELY COORDINATE WITH THE POWER SYSTEM AVAILABLE SHORT CIRCUIT CURRENT. GENERALLY, WHEN THE 480 VOLT, 3 PHASE, X-RAY EQUIPMENT IS SERVED FROM A POWER SUPPLY SYSTEM THAT IS PROVIDED WITH A 500 kVA OR SMALLER TRANSFORMER, A STANDARD 14,000 RMS AMPERE WITHSTAND RATED CIRCUIT BREAKER WILL BE ADEQUATE. HOWEVER, IF THE POWER SUPPLY SYSTEM TRANSFORMER IS LARGER THAN 500 kVA, THEN THE CIRCUIT BREAKERS HAVING A SHORT CIRCUIT WITHSTAND RATING GREATER THAN 14,000 RMS AMPERES MAY BE REQUIRED.

SYMBIA T, T2, T6, T16
REV 3

SIEMENS

SYMBIA T, T2, T6 AND T16
TYPICAL FINAL DRAWING SET

SYM	DATE	DESCRIPTION
△	N/A	TYPICAL REV 1

-ISSUE BLOCK-

PROJECT #: 13042

SHEET: E-101

SHEET 5 OF 6

SCALE: AS NOTED

REF. #:

DATE:

DRAWN BY:

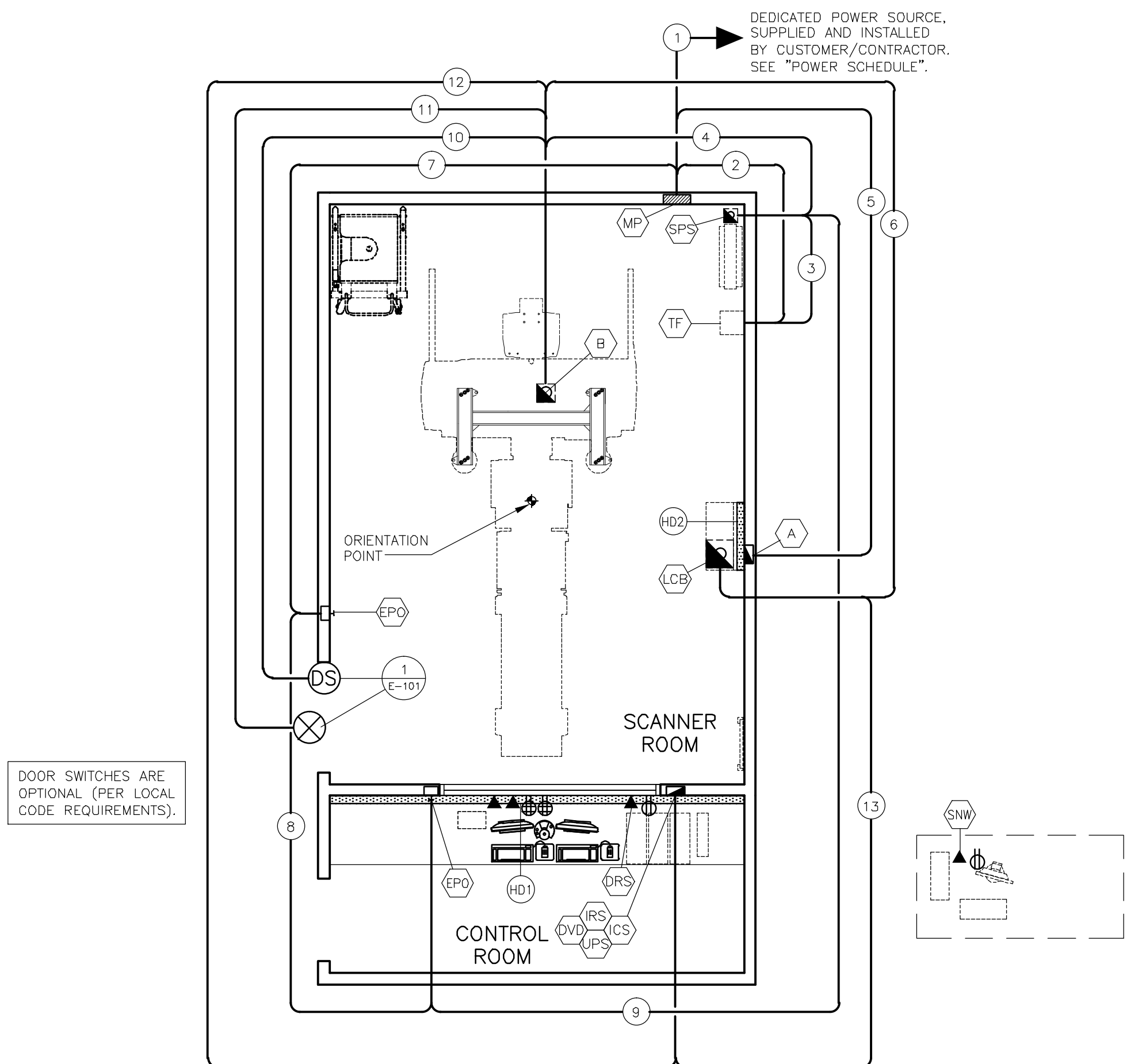## ATTENTION:

-THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.
-THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

-IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

-ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.
-THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.
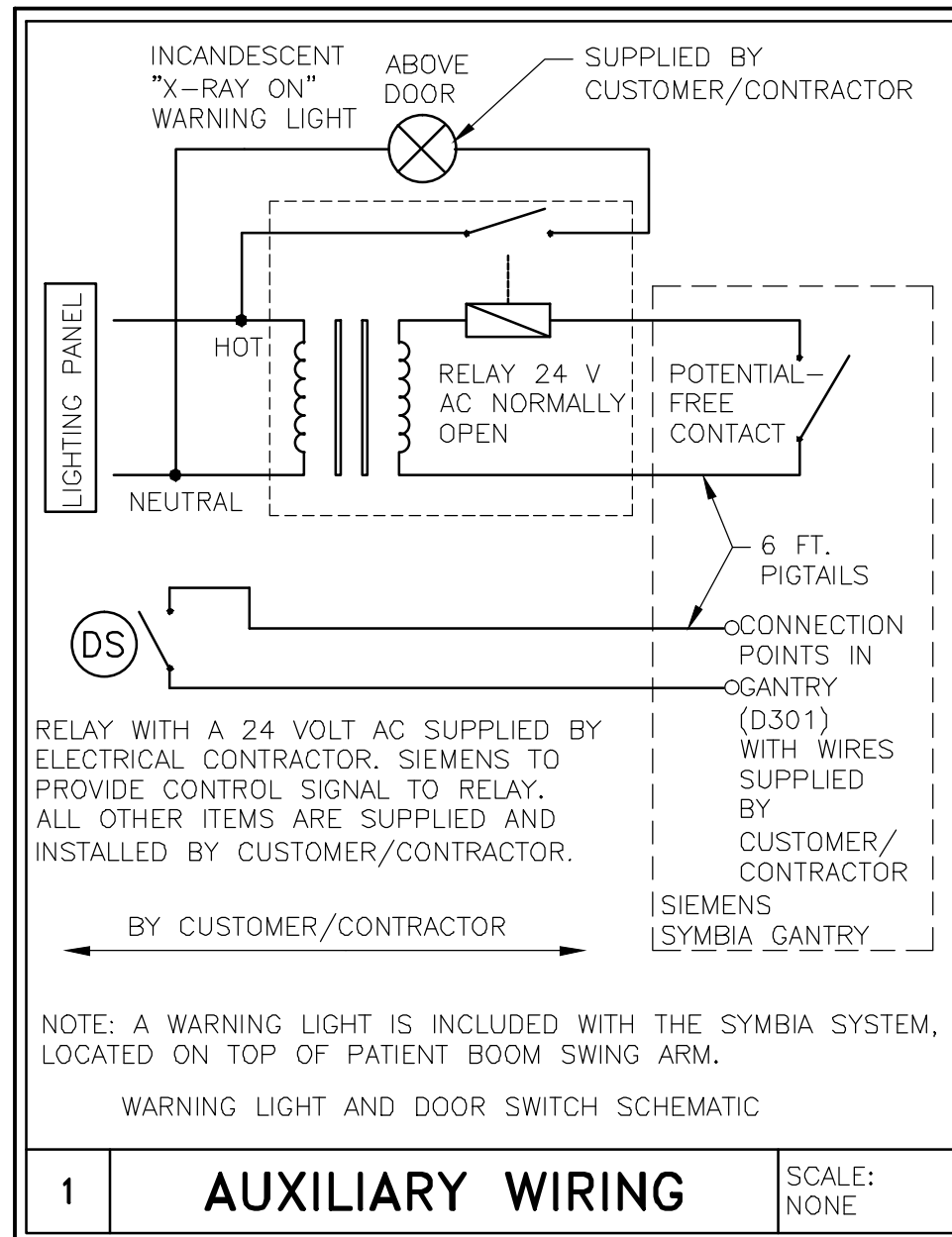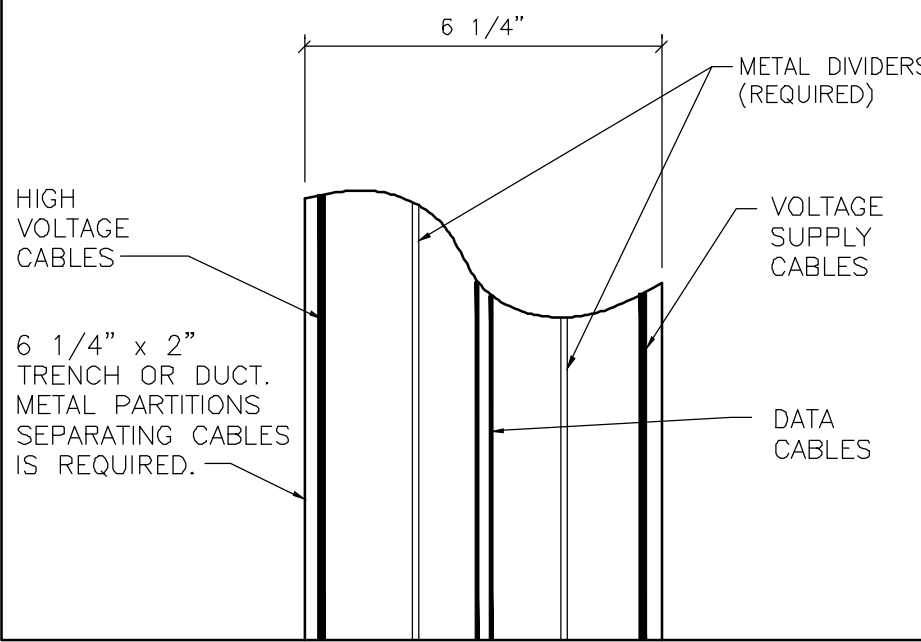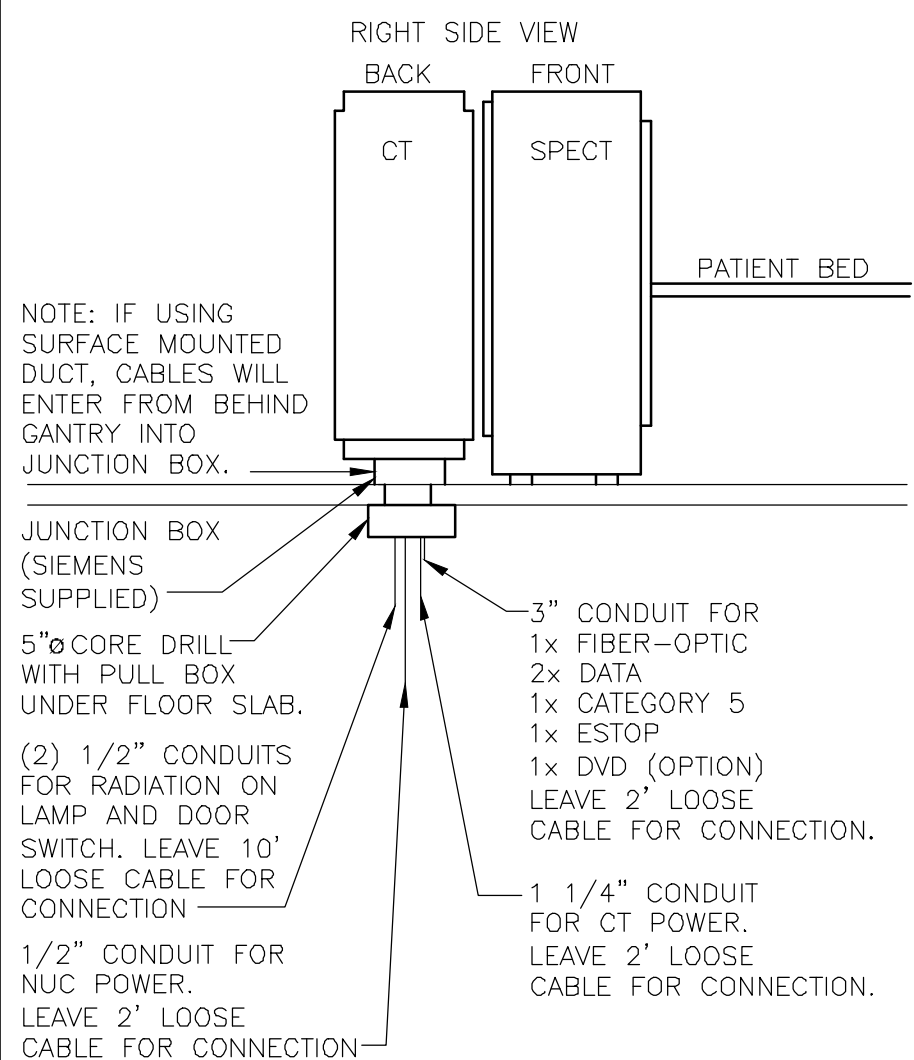
ELECTRICAL DIMENSION PLAN

SCALE: 1/4" = 1'-0"

7'-8 1/2"
10 5/8"
6 1/4"
6"
10'-9"
12'-8"
10'-9 11/16"
3'-11"
2'-5 1/2"
2'-6"
15'-0"

SCANNER ROOM

CONTROL ROOM

ORIENTATION POINT

POWER SCHEDULE

ALL CONDUITS AND WIRE SIZES MUST BE DETERMINED BY THE ELECTRICAL ENGINEER ON RECORD PER N.E.C. AND TO MAINTAIN SIEMENS IMPEDANCE REQUIREMENTS.

MP

A B

EPO EPO

STEP DOWN TRANSFORMER FOR UPS FOR SPECT–5 kVA (CUSTOMER/CONTRACTOR SUPPLIED) TO BE SIZED BY ENGINEER OF RECORD

LINE CONNECTION BOX (SIEMENS SUPPLIED) (LCB)

UPS FOR SPECT (SIEMENS SUPPLIED) (SPS)

CT GANTRY (SIEMENS SUPPLIED) (B)

SPECT GANTRY (SIEMENS SUPPLIED) (B)

ITEM	QTY	DESCRIPTION
MP	1	MAIN PANEL WITH MAIN BREAKER FLUSH OR SURFACE MOUNTED, MAIN BREAKER MUST HAVE A TRIPPING DEVICE SO WHEN ANY EPO IS PRESSED THE MAIN BREAKER TRIPS. THIS TRIPPING DEVICE CONTROL CIRCUIT MUST BE OF FAIL-SAFE DESIGN. THE CONTROL CIRCUIT FOR THE EPO'S MUST HAVE AN ENERGY STORAGE SOURCE SO THAT THE CONTROL CIRCUIT NEVER LOSES POWER.

MAIN BREAKER AMPS: SEE POWER REQUIREMENTS

VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
480Y/277Y	3	1	1	5 (NOTE 1)

ITEM	QTY	
A	1	BREAKER AMPS: 80 FOR LINE CONNECTION BOX (LCB) AND CT GANTRY (B)

VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
480Y/277Y	3	1	1	5 (NOTE 1)

ITEM	QTY	
B	1	BREAKER AMPS: 25 UPS FOR SPECT (SPS) AND SPECT GANTRY (B)

VOLTS	PHASES	NEUTRAL	GROUND	TOTAL WIRES
277Y	1	1	1	3 (NOTE 1)

1) ALL WIRES MUST BE SAME SIZE.

ITEM	QTY	DESCRIPTION
EPO	VARIES	EMERGENCY POWER OFF BUTTON WITH PROTECTIVE COVER THAT PREVENTS ACCIDENTAL ACTIVATION OF THE EPO BUTTON. THE EPO MUST BE OF FAIL-SAFE DESIGN, THE CONTROL CIRCUIT FOR THE EPO'S MUST HAVE AN ENERGY STORAGE SOURCE SO THAT THE CONTROL CIRCUIT NEVER LOSES POWER. ALL EPO'S ARE TO BE LATCHING TYPE AND MUST BE RESET BEFORE MAIN BREAKER CAN BE RESET.

IF ANY OPTIONAL UPS EQUIPMENT IS PROVIDED BY SIEMENS, THE CUSTOMER/CONTRACTOR SHALL PROVIDE AN ADDITIONAL CONTACT IN EACH EPO AND PROVIDE SEPARATE WIRING FOR AN ADDITIONAL EPO CIRCUIT AS REQUIRED. PLEASE COORDINATE THE TYPE OF CONTACT REQUIRED FOR THE UPS CIRCUIT WITH SIEMENS PROJECT MANAGER.

THE EPO'S MUST BE INSTALLED BY A QUALIFIED ELECTRICAL CONTRACTOR ACCORDING TO NATIONAL ELECTRICAL CODE, STATE AND LOCAL REGULATIONS. MEASURES SHOULD BE TAKEN TO DESIGN THE CIRCUIT IN SUCH A WAY THAT IT WILL ALWAYS WORK WHEN THE MEDICAL EQUIPMENT IS POWERED. THE CUSTOMER IS SOLELY RESPONSIBLE FOR THE IMPLEMENTATION OF THE EPOs AND THEIR ASSOCIATED CIRCUITS AND MUST MAKE THE FINAL DETERMINATION CONSIDERING ALL SITE CONDITIONS AND REGULATORY FACTORS.

THE EPO SHALL BE MAINTAINED TYPE, PROVIDED WITH (1) SET(S) OF CONTACTS FOR TRIPPING OF THE MAIN IN THE MP. A SECOND SET OF NORMALLY OPEN CONTACTS IS REQUIRED FOR EACH EPO FOR THE SIEMENS SUPPLIED UPS FOR SPECT. THE EPO SHALL BE CONNECTED IN PARALLEL WITH THE (2) SETS OF CONTACTS, THEREBY WHEN ANY EPO IS ACTIVATED, THE NORMALLY OPEN CONTACT WILL CLOSE SHUTTING DOWN THE UPS FOR SPECT. THE OTHER CONTACT (NORMALLY OPEN/NORMALLY CLOSED) WILL TRIP THE MAIN BREAKER.

REV 1

ALL ITEMS LISTED IN THIS SCHEDULE SHALL BE SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR.

UPS FOR SPECT PREINSTALL REQUIREMENTS

THE CUSTOMER HAS PURCHASED THE UPS FOR SPECT OPTION FOR THE SPECT PORTION OF THE SYMBIA T'S SYSTEMS. THE UPS FOR SPECT REQUIRES 208/220/240 VAC AND NEEDS A CUSTOMER/CONTRACTOR SUPPLIED STEP DOWN TRANSFORMER (277 VOLTS PRIMARY 5 KVA STEP DOWN TRANSFORMER TO 208/220/240 VAC). IT IS THE CUSTOMER/CONTRACTOR RESPONSIBILITY TO PROVIDE POWER TO AND CONNECT THE STEP DOWN TRANSFORMER PRIOR TO EQUIPMENT DELIVERY AND INSTALLATION.

CONDUIT LENGTH CALCULATIONS

IF SITE SPECIFIC CONDITIONS EXCEED THE FOLLOWING ASSUMED VALUES THEN ADDITIONAL LENGTH MUST BE SUBTRACTED BY THE ELECTRICAL CONTRACTOR FROM THE MAXIMUM CONDUIT LENGTHS LISTED.

IF DUCT LOCATIONS ARE ALTERED FROM THE SHOWN LAYOUT IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO RECALCULATE THE MAXIMUM CONDUIT LENGTHS.

ASSUMED VALUES USED IN CALCULATING STATED MAXIMUM CONDUIT LENGTHS:
VERTICAL DUCTS – 10'-0"
FLOOR PENETRATIONS – 3'-0"

GROUNDING NOTES

EQUIPMENT GROUND CONDUCTOR TO COMPLY WITH THE FOLLOWING:

1) SIZED EQUIVALENT TO THE PHASE CONDUCTORS (FULL SIZED GROUND).
2) DERIVED FROM THE ELECTRICAL SERVICE, TRANSFORMER OR MAIN DISTRIBUTION PANEL FEEDING THE SIEMENS EQUIPMENT.
3) RUN IN THE SAME CONDUIT, TROUGH OR RACEWAY AS THE PHASE CONDUCTORS.
4) CONTINUOUS, WITH NO BREAKS OR USE OF CONDUIT, CHASSIS OR EARTH AS THE SOLE GROUNDING PATH.
5) BONDED TO CHASSIS AND/OR CONDUIT IN ACCORDANCE WITH THE NEC REQUIREMENTS.
6) MINIMIZE CONNECTIONS OR TERMINALS TO ENSURE CONTINUITY OVER THE LIFE OF THE INSTALLATION.
7) AS A NORM, THERE SHOULD NOT BE ANY CURRENT PRESENCE ON THE GROUND CONDUCTOR, BUT IT IS ACCEPTABLE TO HAVE ≤500mA DURING OPERATION OF THE IMAGING EQUIPMENT.

POWER REQUIREMENTS

SYSTEM	LINE VOLTAGE (VOLTS)	POWER CONSUMPTION (kVA) SEE NOTE BELOW	AUTOMATIC CIRCUIT BREAKER (AMPS)	INCOMING LINE IMPEDANCE (mΩ)	HZ
SYMBIA T/T2	3ø 480±10%	44.8 kVA SCAN	100	320	60

POWER CONSUMPTION:
SYMBIA T/T2 – 40 kVA MAXIMUM POWER CONSUMPTION, LESS THAN OR EQUAL TO 1 kVA STANDBY

SPECT GANTRY, PHS, UPS, & SNAC – 4.8 kVA MAXIMUM POWER CONSUMPTION, LESS THAN OR EQUAL TO 1.5 STANDBY

TOTAL CONSUMPTION = 44.8 TOTAL STANDBY = 2.5 kVA

NOTE: THE SPECT UNITS NEED TO BE WIRED SINGLE PHASE TO NEUTRAL WITH APPROPRIATE BREAKER AND WIRE SIZE.

DO NOT CONNECT ANY EXTERNAL USERS TO THE SPECT/CT POWER LINE. FOR SYMBIA T/T2, THE IMAGING SYSTEM IMS (ICS, IRS, AND MONITOR) MUST BE CONNECTED VIA THE UPS TO THE LCB. THE FUSE IS ALREADY INTEGRATED IN THE LCB.

AN ON/OFF SWITCH IN ACCORDANCE WITH UL 2601/CSA114 INCLUDING A SWITCH POSITION INDICATOR IS INTEGRATED IN THE LCB, A SEPARATE ON/OFF SWITCH MAY BE REQUIRED PER LOCAL CODE.

THE SCANNER AND CONTROL ROOM SHOULD BE EQUIPPED WITH AT LEAST ONE EACH EMERGENCY POWER OFF BUTTON.

POWER REQUIREMENTS

SYSTEM	LINE VOLTAGE (VOLTS)	POWER CONSUMPTION (kVA) SEE NOTE BELOW	AUTOMATIC CIRCUIT BREAKER (AMPS)	INCOMING LINE IMPEDANCE (mΩ)	HZ
SYMBIA T6/T16	3ø 480±10%	74.8 kVA SCAN	100	320	60

POWER CONSUMPTION:
SYMBIA T6/T16 – LESS THAN OR EQUAL TO 70 kVA MAXIMUM POWER CONSUMPTION, LESS THAN OR EQUAL TO 3 kVA STANDBY

SPECT GANTRY, PHS, UPS, & SNAC – 4.8 kVA MAXIMUM POWER CONSUMPTION, LESS THAN OR EQUAL TO 1.5 STANDBY

TOTAL CONSUMPTION = 74.8 TOTAL STANDBY = 4.5 kVA

NOTE: THE SPECT UNITS NEED TO BE WIRED SINGLE PHASE TO NEUTRAL WITH APPROPRIATE BREAKER AND WIRE SIZE.

DO NOT CONNECT ANY EXTERNAL USERS TO THE SPECT/CT POWER LINE. FOR SYMBIA T6/T16, THE IMAGING SYSTEM IMS (ICS, IRS, AND MONITOR) MUST BE CONNECTED VIA THE UPS TO THE LCB. THE FUSE IS ALREADY INTEGRATED IN THE LCB.

AN ON/OFF SWITCH IN ACCORDANCE WITH UL 2601/CSA114 INCLUDING A SWITCH POSITION INDICATOR IS INTEGRATED IN THE LCB, A SEPARATE ON/OFF SWITCH MAY BE REQUIRED PER LOCAL CODE.

THE SCANNER AND CONTROL ROOM SHOULD BE EQUIPPED WITH AT LEAST ONE EACH EMERGENCY POWER OFF BUTTON.

SYMBOLS

ALL MAY NOT APPLY

	MAIN PANEL OR ENCLOSURE BY CUSTOMER/CONTRACTOR
	OPENING IN RACEWAY OR TRENCHDUCT
	PULLBOX IN (FLOOR/WALL/CEILING)
	OPENING IN ACCESS FLOORING
⊗	WARNING LIGHT (X-RAY ON)
DS	DOOR SAFETY SWITCH
	(EPO) EMERGENCY POWER OFF BUTTON
	TRENCHDUCT
	CEILING DUCT
	UNDER FLOOR DUCT
	SURFACE DUCT
⊠	VERTICAL DUCT
▶	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER).
	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET UNLESS OTHERWISE STATED.

POWER DISTRIBUTION

TO ENSURE TROUBLE-FREE OPERATION, WE RECOMMEND THAT THE MAIN POWER LINE RUN DIRECTLY FROM THE HOUSE TRANSFORMER TO THE ON-SITE POWER DISTRIBUTOR.

THE MAIN POWER LINE SHOULD BE ROUTED DIRECTLY FROM THE ON-SITE POWER DISTRIBUTOR TO THE SYMBIA SYSTEM MAIN POWER PANEL.

CUSTOMER SUPPLIED

DOOR (SAFETY) SWITCH REQUIRED ON ALL DOORS ACCESSING THE EXAMINATION ROOM IN ACCORDANCE WITH LOCAL CODES.

RADIATION WARNING LIGHTS REQUIRED ON ALL DOORS ACCESSING THE EXAMINATION ROOM IN ACCORDANCE WITH FDA CODES.

EMERGENCY POWER OFF BUTTON SHOULD BE INSTALLED IN BOTH THE SCANNER AND CONTROL ROOM.

POWER QUALITY

POOR POWER WILL ALTER EQUIPMENT PERFORMANCE

IT IS IN THE CUSTOMER'S INTEREST THAT THE ELECTRICAL CONTRACTOR BE RESPONSIBLE FOR TESTING AND VERIFYING THAT THE EQUIPMENT POWER SUPPLY COMPLIES WITH THE SIEMENS SPECIFICATIONS.

FINISHED ROOM HEIGHT

SYMBIA T, T2, T6 OR T16	MINIMUM 8'-0"
SYMBIA T, T2, T6 OR T16 WITH CEILING MOUNTED COMPONENT OTHER THAN RADIATION ON LAMP	MINIMUM 8'-0" MAXIMUM 12'-0"

CONSIDER THE WARNING LIGHT WILL BE PLACED ON TOP OF THE PATIENT BOOM. ANY OTHER CEILING MOUNTED COMPONENT MUST BE PLACED AS TO NOT COLLIDE WITH WARNING LIGHT.
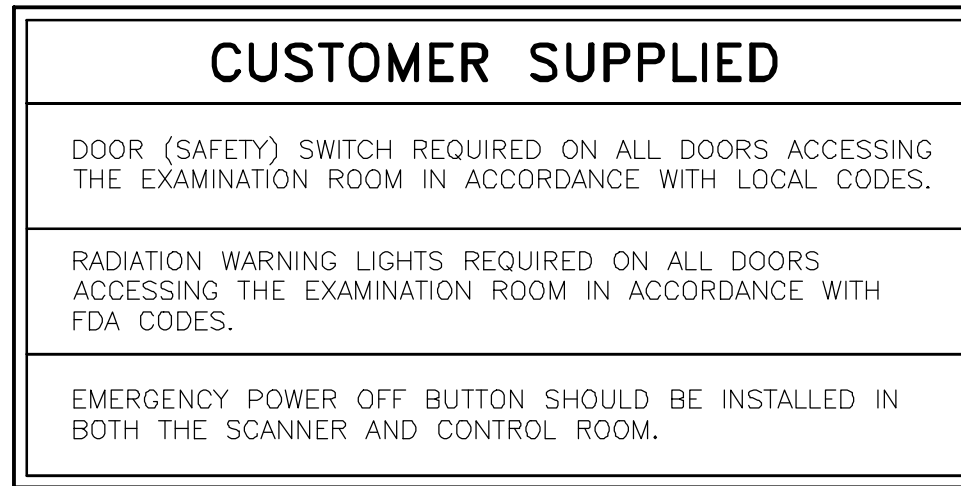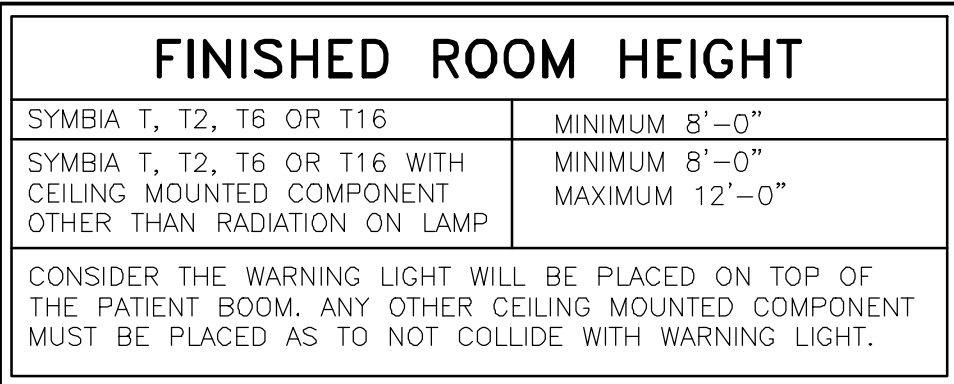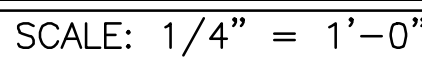

SYMBIA T, T2, T6, T16
REV 3

SIEMENS

SYMBIA T, T2, T6 AND T16
TYPICAL FINAL DRAWING SET

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

ALL RIGHTS ARE RESERVED.

	N/A	TYPICAL REV 1	
SYM	DATE	DESCRIPTION	

—ISSUE BLOCK—

PROJECT #: 13042

SHEET: E-102

SHEET 6 OF 6

DRAWN BY:

SCALE: AS NOTED

REF #:

DATE:

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

AECOM

Atta ID: 6695-013
Alt ID:

Description: Camera, Gamma, SPECT/CT

Manufacturer: Philips Healthcare - Imaging Systems   (800-229-6417)   **Mfr #:** NRTD845

Vendor: Philips Healthcare - Imaging Systems   (800-229-6417)   **Vendor #:** NRTD845

Model: BrightView XCT   **CAD ID:** GAM0063

Item ID:

Dual head, variable angle Gamma Camera with CT-based localization and attenuation correction. Provides flexibility, low dose-high resolution CT localization flexible breathing protocols with CT CT-based attenuation correction, enhanced nuclear medicine-centric workflow, and a platform, for emerging molecular imaging agents. Integrated CloseUp technologies provide ability to maintain close proximity to the patient for optimized resolution.

General Product Detail

Arch Sig: Yes		**Spatially Sig:** No	
Arch Code: 2 - Movable, Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/V	**Type:** Medical	**Green:** No	

Physical Requirements

Width: 83.75 in (2127 mm)	**Left:** 20.00 in (508 mm)
Depth: 176.52 in (4484 mm)	**Right:** 44.00 in (1118 mm)
Height: 96.00 in (2438 mm)	**Front:** 5.50 in (140 mm)
Max Weight: 4500 lbs (2041.2 kg)	**Back:** N/A
Mounting: Floor	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: 480		**Watts:** *	
Hz: 60		**Amps:** 40	
Phase: 3-Phase		**BTU/hr:** 4393	
KVA:		**Ded. Circuit:** No	
Emer. Power: No		**Plug Type:** Hardwire	

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No	
Water - Hot: No	**Drain:** No	
Water - Treated: No	**Steam:** No	
Vent: No	**Vacuum - Dental:** No	
Tech Connect: Yes	**Vacuum - Medical:** No	

Structural Requirements

Seismic: Yes	**Pre-approval:**

Product and Project Item Notes

Specification:
Weight specified is without collimators.
Depth reflects Gantry, Detectors and Patient Table.
System consists of multiple components. See cutsheet for dimensions and electrical requirements for those components.
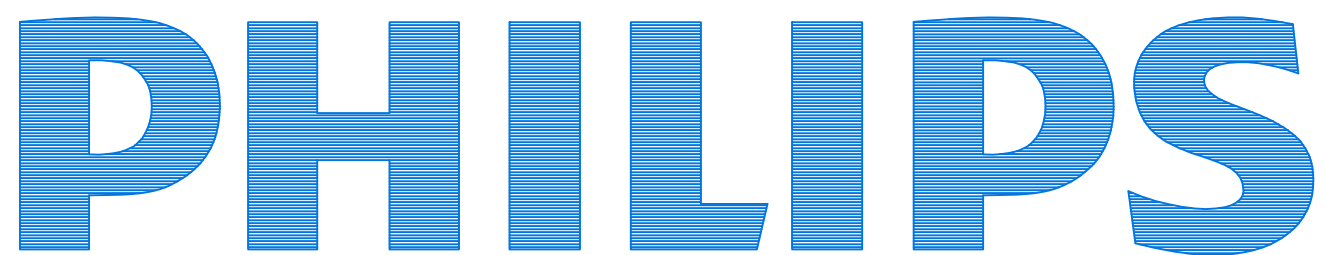
Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B120	SPECT/CT	Project	Draft (New)	1	Per note - existing Per 123114 meeting notes - Camera to be Symbia - T, not Brightview Per VA Document Equipmnet List Corrections - 14. 6695-001 Philips Brightview Spect/CT should be in room X113. Per arch clarification - Brightview is new
					Total: 1	

PHILIPS

Healthcare

www.healthcare.philips.com

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED.

Revision History

Note for Architects and/or Contractors: If revisions are listed, these drawings must be thoroughly reviewed so that all changes can be incorporated into your project.

Rev.	Date	Revision Descriptions.	By

Table of Contents

Philips Contacts

Project Manager:

Contact Number:

Email:

Drawn By:

Project Details

Drawing Number

N-SRD080008

Date Drawn: 12/2/2010

Quote: None

Order: None

Project

BrightView XCT

Standard Reference Drawing

Not Site Specific

-

C1

11.19.10

General Specifications

1. Responsibility
The customer shall be solely responsible, at its expense for preparation of site, including any required structural alterations. The site preparation shall be in accordance with plans and specifications provided by Philips. Compliance with all safety, electrical and building codes relevant to the equipment and its installation is the customer's responsibility. Sufficiency of such plans and specifications, specifically including, but not limited to the accuracy of the dimensions described therein, shall be the sole responsibility of customer. The customer shall advise Philips of conditions at or near the site which could adversely affect the carrying out of the installation work and shall ensure that such conditions are corrected and that the site is fully prepared and available to Philips before the installation work is due to begin. The customer shall provide all necessary plumbing, carpentry work, or conduit wiring required to attach and install products ready for use.

2. Permits
Customer shall obtain all permits and licenses required by federal, state/provincial or local authorities in connection with the construction, installation and operation of the products and shall bear any expense in obtaining same or in complying with any related rules, regulations, ordinances and statutes.

3. Radiation Protection
The customer or his contractor, at his own expense, shall obtain the service of a licensed radiation physicist to specify radiation protection.

4. Asbestos and Other Toxic Substances
Philips assumes no hazardous waste (i.e., pcb's in existing transformers) exists at the site. If any hazardous materials are found, it shall be the sole responsibility of the customer to properly remove and dispose of this material at their expense. Any delays caused in the project for this special handling shall result in Philips time period for completion being extended by like period of time. Philips assumes that no asbestos material is involved in this project in any ceilings, walls or floors. If any asbestos material is found anywhere on the site, it shall be the customer's sole responsibility to properly remove and/or make safe this condition, at the customer's sole expense.

5. Labor
In the event local labor conditions make it impossible or undesirable to use Philips' regular employees for such installation and connection, such work shall be performed by laborers supplied by the customer, or by an independent contractor chosen by the customer at the customer's expense, and in such case, Philips agrees to furnish adequate engineering supervision for proper completion of the installation.

6. Schedule
The general contractor should provide Philips with a schedule of work to assist in the coordination of delivery of Philips supplied products which are to be installed by the contractor and delivery of the primary equipment.

7. Extended Installation or Turnkey Work by Philips
Any room preparation requirements for Philips equipment indicated on these drawings are the responsibility of the customer. If an extended installation or turnkey contract exists between Philips and the customer for room preparation work required by the equipment represented on these drawings, some of the responsibilities of the customer as depicted in these drawings may be assumed by Philips. In the event of a conflict between the work described in the turnkey contract workscope and these drawings, the turnkey contract workscope shall govern.

(08.0)

Customer Minimum Site Preparation Requirements

A smooth efficient installation is vital to Philips and their customers. Understanding what the minimum site preparation requirements are will help achieve this goal. The following list clearly defines the requirements which must be fulfilled by the customer before the installation can begin.

1. Walls to be painted or covered, baseboards installed, floors to be tiled and/or covered, ceiling shall have grid tiles, architectural features (such as casework or bulkheads) installed and finished, lighting fixtures installed and operational, light levels for servicing of equipment to be a minimum of 500 lux, and the area in and around the Nuclear Suite must be dust free.

2. Doors and windows installed and finished with locksets operational.

3. All electrical convenience outlets, conduit, raceway and junction boxes installed and operational.

4. Incoming mains power operational and available at outlet for BrightView XCT Gantry.

5. 120 V convenience outlets operational.

6. All support structures correctly installed. All channels, pipes, beams and/or other supporting devices should be level, parallel, and free of lateral or longitudinal movements.

7. All HVAC (heating, ventilating and air conditioning) installed and operational per specifications listed under "HVAC Requirements for General Equipment Locations" on this page.

8. All plumbing installed and operational (if required).

9. All door sizes, corridor widths and heights, and elevator sizes/capacities should be checked to ensure that they are adequate for delivery of equipment into exam room. Recommend 4'-0" (1220mm) door. Required minimum clear opening is 3'-8" (1118mm) for 6'-0" (1829mm) or larger adjacent corridor. Required minimum door height shall be 6'-10" (2083mm) clear opening. See AD3 sheet of final drawing package for weights and shipping sizes.

10. The floor levelness under the BrightView XCT Gantry and the Patient Table meets Philips specifications. If the customer cannot meet these specifications, then contact the local Philips Service Representative to discuss optional solutions.

11. The structural floor support of the Nuclear Suite and the delivery path is adequate for the weight of the equipment and is validated by the customer's structural engineer prior to delivery of the system.

12. Internet access is required to be available in the workstation area prior to delivery of the system for Web FSE Access.

13. Remote Service Diagnostics - Medical imaging equipment to be installed by Philips Healthcare is equipped with a service diagnostic feature which allows for remote and on site service diagnostics. To establish this feature, a RJ45 type ethernet 10/100/1000 Mbit network connector must be installed as shown on plan. Access to customer's network via their remote access server is needed for Remote Service Network (RSN) connectivity. All cost with this feature are the responsibility of the customer. See N1 sheet of final drawing package.

Note Once Philips has moved equipment into the Nuclear Suite and started the installation, the contractor shall schedule his work around the Philips installation team on site. It is suggested that a telephone be provided in the suite to receive telephone calls. This would alleviate facility staff from answering calls for Philips personnel.

(10.0)

Electrical Requirements
BrightView XCT Camera

Supply Configuration: 3 phase Wye, 3 wire power, Earth (L1, L2, L3, PE)

Room Disconnect/Circuit Breaker: 40 A

Nominal Line Voltage: 400-480 VAC +/- 10%, 47-63 Hz

Branch Power Recommended: 25 kVA
Maximum Power Required: 12 kVA

Refer to sheet ED1 of inal drawing package for complete electrical requirements   (09.0)

HVAC Requirement for General Equipment Locations

The camera room HVAC system must maintain the temperature between 60º F (16º C) to 75º F (24º C) with less than 10º F (5º C)] variation per hour. Humidity must be between 20% - 70%. These requirements exist on a 24 hours per day, 7 days per week basis.

(10.0)

Vibration Specifications

Nuclear medicine cameras do not have floor vibration specifications. This is because:
- image collection durations are long (10-300 seconds, or more) and floor vibration durations are much smaller,
- vibrations are typically sinusoidal and, therefore, tend to cancel out, and
- the patient table and detector/gantry assemblies are both floor mounted and tend to vibrate together.

(07.0)

Magnetic Field Limitations

The external field strength at scanner must be less than 1 gauss (0.1mT) steady state from 10'-0" (3048mm) of the scanner and cannot fluctuate by more than +- .05 gauss. The external field strength at work station and computer must be less than 1 gauss (0.1mT) when color CRT is provided and less than 5 gauss (0.5mT) at all other times.   (09.0)

Radioactive Materials

Procurement of a radioactive materials license or license amendment is often the critical item in the site preparation process. The scanner cannot be installed unless the site is properly licensed.

The application process can be very time-consuming, so the process should begin early. In the United States, the State is the licensing authority for Gd-153, used for SPECT-CT alignment.

The customer must have a license for handling radioactive materials including Gd-153 and Tc-99m. Additionally, during the installation and detector calibration, Gd-153 sources (provided by IPL with the system) and Tc-99m does (provided at customer cost) must be available for the Philips installer.

If the customer is ordering a Co-57 source from Philips, their license must include 10 mCi or 20 mCi of Co-57 (depending on the source being ordered) before Philips can ship the source.

The customer must have the proper license in order for Philips to authorize the source vendor to ship the radioactive sources for the scanner. The scanner cannot be installed until the licenses have been obtained.

Refer to sheet MP1 of final drawing package for additional source information.

(07.0)

Radiation Considerations

The isotopes used in the BrightView XCT emit a slightly lower radiation than the isotopes typically used in single photon imaging - 100 keV vs 140 keV for Tc-99m. This means that no extra shielding is needed for the use of the Gd-153 sources in the BrightView XCT suite.

Refer to sheet MP1 of final drawing package for Stray Radiation Dose Map. Shielding is required for Brightview XCT system. Verify with Physicist on record to determine specific shielding requirement.

(06.0)

PHILIPS

Philips Contacts
Project Manager:
Contact Number:
Email:
Drawn By:

Project Details
Drawing Number
N-SRD080008
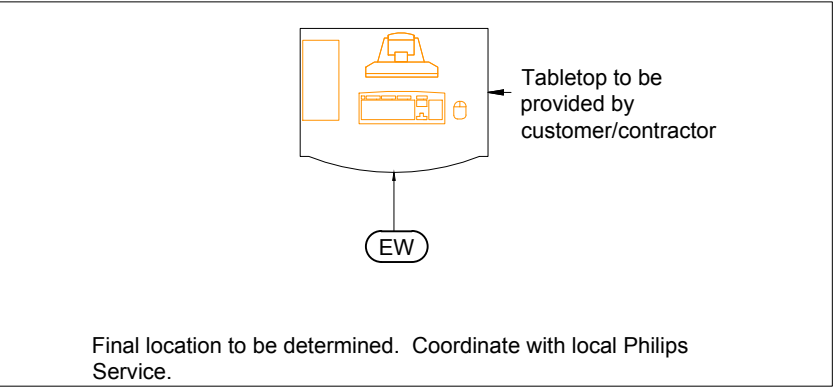**Date Drawn: 12/2/2010**
Quote: None
Order: None

Project
BrightView XCT
Standard Reference Drawing
Not Site Specific
-

AN

11.19.10

Equipment Legend

A Furnished and installed by Philips
B Furnished by customer/contractor and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing
F Future
G Option

Equipment Designation

Detail Sheet

		Description	Weight (lbs)	Heat Load (btu/hr)
A	WS	Brightview XCT System	2924	
A	WT	Patient Table	550	3709
A	HVG	High Voltage Generator	235	---
A	AC	Acquisition Terminal (on cart) *	53	544
A	CS	Collimator Storage Cart	161	---
A	CH	Calibration Source Holder (Dual Detector)	---	---
G	LS	In-Room Lead Shield	287	---
G	EW	Extended Nuclear Workspace	90	1000
G	UPS	5 kVA Uninterruptible Power Supply	120	1040

* Acquisition terminal can be either on cart or wall mounted. Customer to determine configuration at time of order acquisition.

WS

CS

WT

LS

AC

CH

HVG

UPS

Table ℄

13'-6"

8'-4"

6'-7"

Detector ℄

18'-0"

Tabletop to be provided by customer/contractor

EW

Final location to be determined. Coordinate with local Philips Service.

Equipment Layout

Minimum Ceiling Height: 8'-0" (2438mm)

0 1' 2' 4' 8'

0 .5m 1m 2m

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED.

Project
BrightView XCT
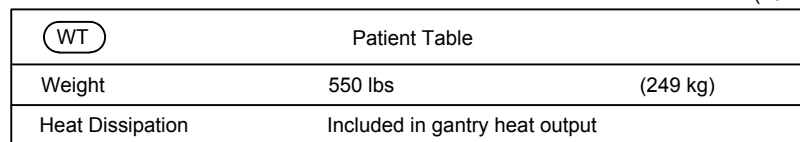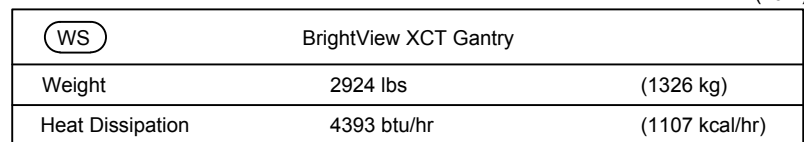**Standard Reference Drawing**
Not Site Specific
-

Philips Contacts
Project Manager:
Contact Number:
Email:
Drawn By:

Project Details
Drawing Number
N-SRD080008
Date Drawn: 12/2/2010
Quote: None
Order: None

A1

THE INFORMATION IN THIS PACKAGE IS PROVIDED AS A CUSTOMER CONVENIENCE, AND IS NOT TO BE CONSTRUED AS ARCHITECTURAL DRAWINGS OR CONSTRUCTION DOCUMENTS. Philips assumes no liability nor offers any warranty for the fitness or adequacy of the premises or the utilities available at the premises in which the equipment is to be installed, used, or stored.

PHILIPS

11.19.10

Top View (Plan)

184.53" [4687mm]

176.52" [4484mm]

4" [102mm] B

88.00" [2235mm]   69.04" [1754mm]   24.00" [610mm] B

Service access 20" (508mm)

Pivot Point

R = 78.25" (1988mm)

R=20.1" (511mm)

42 degrees

Detectors rotation outline

41.80" [1062mm]

Table Centerline

83.61" [2124mm]

41.80" [1062mm]

158.79" [4084mm]

C

99.00" [2515mm]

C   87" [2210mm]

4" [101mm]   19.48" [495mm]

D

59.00" [1499mm]

Detectors rotation outline

Minimum distance behind gantry

Service access 20" (508mm)

A

Single Detector Calibration

C Dual Detector Calibration

Calibration Source Holder

Notes:

A The room layout must permit the placement of the source holder in the location shown. There must be no metal objects in a 90 degree arc of 30" (762mm) radius in front of the calibration source holder. After performing the daily calibration procedure, technologist will move the source holder to a storage location.

B During total body imaging, the distance from the rear end of the table to the wall can be either:

4" (102mm) for patients up to 6'-6 1/2" (2000mm) with HEAD first into the gantry.

20" (508mm) for patients up to 7' - 10 1/2" (2400mm) with FEET first into the gantry.

C 87" (2210mm) is required from gantry centerline to wall for calibration of one detector at a time. (Single-Detector Calibration). This will cause an increase in service and calibration time.
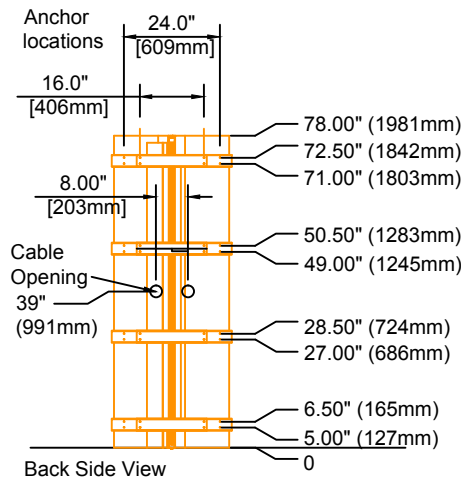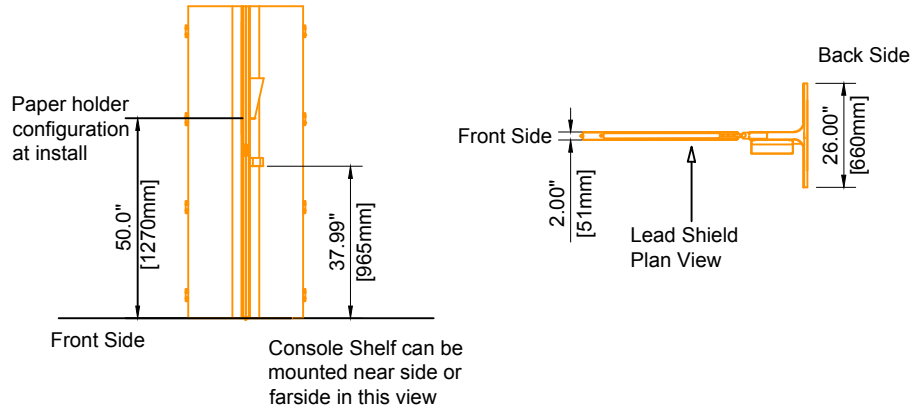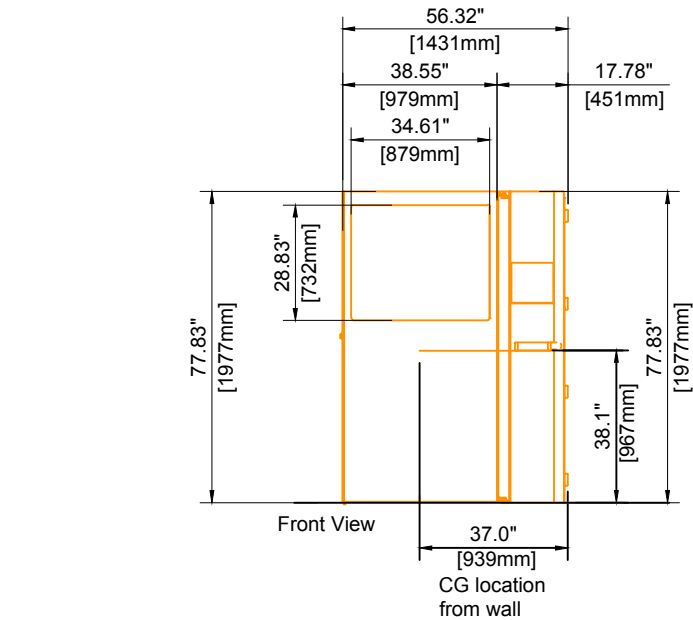
99" (2515mm) is required from gantry centerline to wall for time-saving calibration of both detectors at the same time (Dual-Detector Calibration).

D The table is designed to swing both right and left from the gantry centerline. In a specific room the table will only need to swing in one direction.

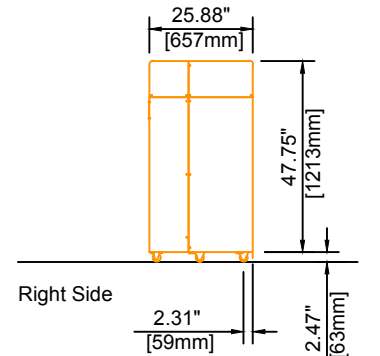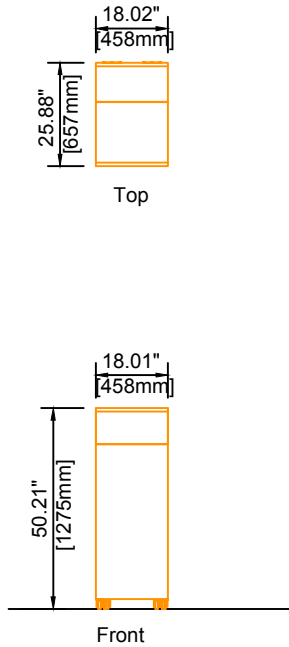E 2.5" (65mm) is required to install the boom arm.

F System height is variable +/- 0.5" (13mm).

G No obstacles can be located in the minimum clearance area above the boom arm swing less than 96" (2438mm) from the finished floor. Examples such as sprinker heads, extended light fixtures, etc.

Side View

Finished Ceiling

72.25" [1835mm]

G   G

E   2.50" [64mm]

Touch Screen and boom

96.00" [2438mm] (minimum)

Isocenter (Gantry)

93.50" [2375mm]

Table Catcher

44.50" [1130mm]

Finished Foor

88.00" [2235mm]   27.99" [711mm]

Pivot Point   Detector Centerline

164.02" [4166mm]

Side View

(10.2)

Front View

46.24" [1175mm]

12.00" [305mm]

CG

21.44" [545mm]

Table Centerline

65.02" [1652mm]

83.54" [2122mm]

Isocenter (Gantry)

93.50" [2375mm]

44.50" [1130mm]

96.00" [2438mm]   F

Front View

(10.1)

WS	BrightView XCT Gantry	
Weight	2924 lbs	(1326 kg)
Heat Dissipation	4393 btu/hr	(1107 kcal/hr)

WT	Patient Table	
Weight	550 lbs	(249 kg)
Heat Dissipation	Included in gantry heat output	

PHILIPS

Front View

56.32" [1431mm]
38.55" [979mm]
34.61" [879mm]
17.78" [451mm]
28.83" [732mm]
77.83" [1977mm]
77.83" [1977mm]
38.1" [967mm]

37.0" [939mm]
CG location from wall

Paper holder configuration at install

Front Side

50.0" [1270mm]
37.99" [965mm]

Console Shelf can be mounted near side or farside in this view

Back Side

Front Side

Lead Shield Plan View

26.00" [660mm]
2.00" [51mm]

Back Side View

Anchor locations
24.0" [609mm]
16.0" [406mm]
8.00" [203mm]
Cable Opening 39" (991mm)

78.00" (1981mm)
72.50" (1842mm)
71.00" (1803mm)
50.50" (1283mm)
49.00" (1245mm)
28.50" (724mm)
27.00" (686mm)
6.50" (165mm)
5.00" (127mm)
0

(10.1)

LS	In-Room Lead Shield	
Weight	287 lbs	(130.2 kg)
Heat Dissipation	---	---

Top

18.02" [458mm]
25.88" [657mm]

Front

18.01" [458mm]
50.21" [1275mm]

Right Side

25.88" [657mm]
47.75" [1213mm]
2.31" [59mm]
2.47" [63mm]

(09.1)

HVG	High Voltage Generator	
Weight	235 lbs	(106.6 kg)
Heat Dissipation	Included in BrightView XCT Heat Output	

Top

21.56" [548mm]
.41" [10mm]
41.51" [1054mm]

Front

21.01" [534mm]
18.81" [478mm]
42.51" [1080mm]
21.56" [548mm]

Side

8.25" [209mm]
24.01" [610mm]
41.51" [1054mm]
Max Height w/collimator
38.56" [979mm]
42.51" [1080mm]
44.00" [1118mm]
.41" [10mm]
18.81" [478mm]
6.80" [173mm]
13.60" [345mm]
38.17" [970mm]

(10.0)
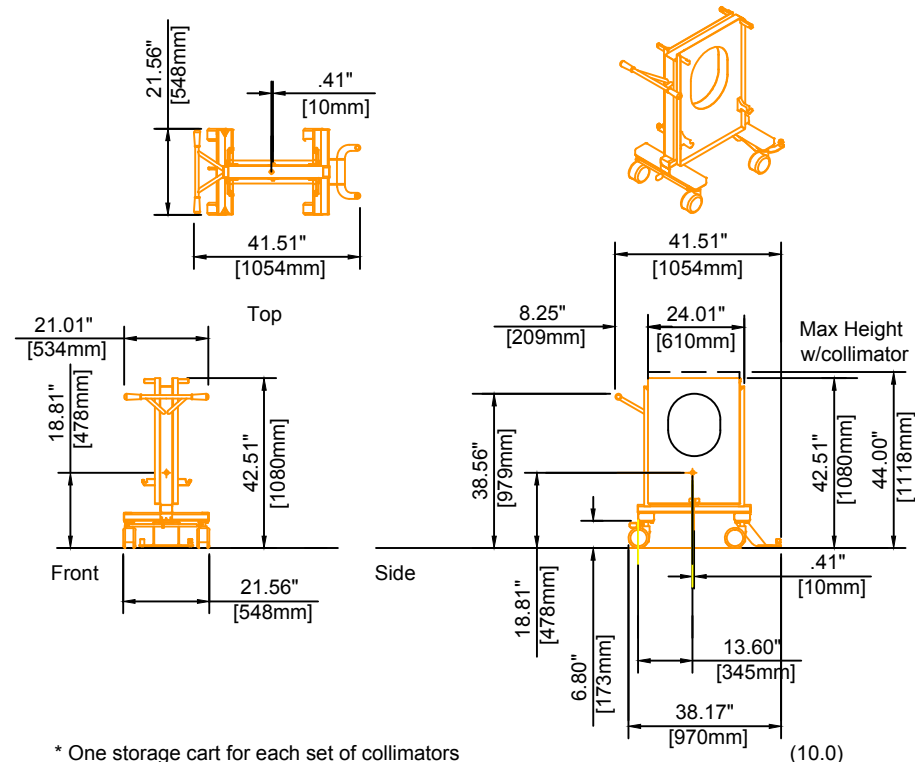
* One storage cart for each set of collimators

CS	Collimator Server/Storer	
Weight (w/o collimators)	161 lbs	(73 kg)
Heat Dissipation	---	---

Isometric (not to scale)

Top

18.02" [458mm]
31.70" [805mm]
31.29" 795mm

Front

17.75" [451mm]
18.96" [482mm]
51.3" [1303mm]
32.34" [821mm]
Finished Floor

Side

30.35" [771mm]
51.3" [1303mm]
29.58" [751mm]
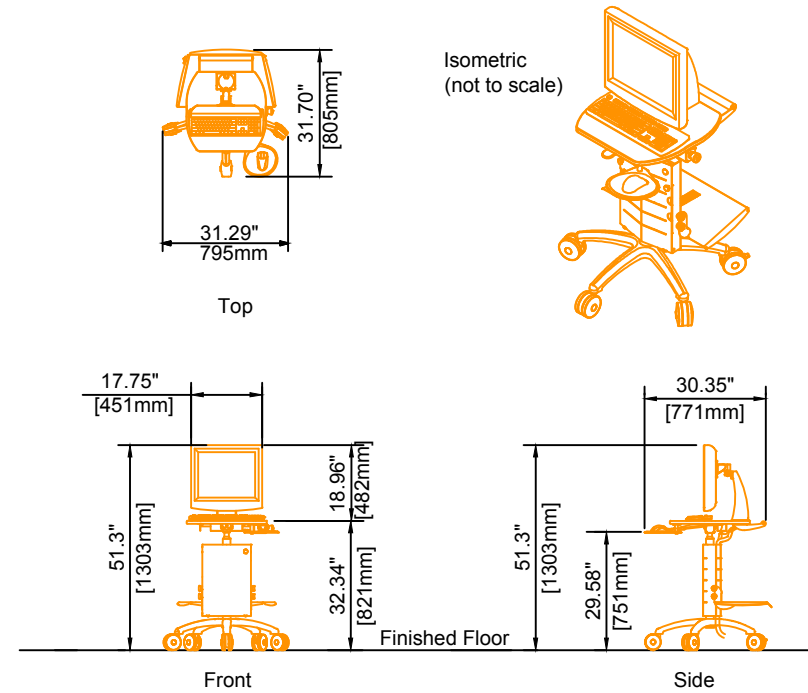
* Weight is for cart only.

(09.1)

AC	Acquisition Terminal and Computer (On Cart)	
Weight	53 lbs *	(24 kg)
Heat Dissipation	544 btu/hr	(137 kcal/hr)

Top

Front

5.10" [130mm]
18.00" [457mm]

Side

26.00" [660mm]
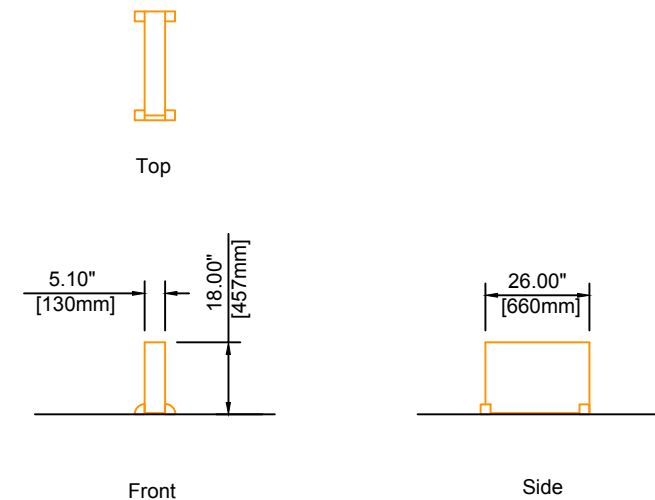
* Audible Noise: < 55 dBA at 1 meter.

(06.0)

UPS	5 kVA Uninterruptible Power Supply	
Weight	120 lbs	(55 kg)
Heat Dissipation	1040 btu/hr	(262 kcal/hr)

11.19.10

PLAN VIEW

88" [2234mm]
84" [2132mm]
A

44" [1117mm] min
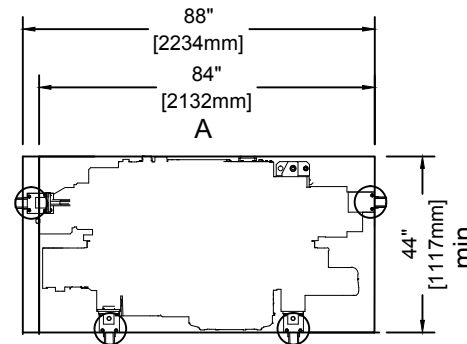
A: Wheels turned Inward

Iso-metric View
Weight = 3936lbs (1785.4kg)

FRONT ELEVATION VIEW

Remove motor control and bracket

3" [79mm]
8" [204mm]
44" [1113mm]

2" [61mm]

Remove leveling feet support brace

78" [1981mm] C
80" [2032mm] B
82" [2085mm] A

A: With Dolly (as is).

B: With motor control and bracket removed.

C: With motor control , bracket, (4) leveling feet and middle support brace removed.

44" [1118mm]
58" [1484mm]

72" [1829mm]
71" [1804mm]

6" [164mm]

Corridor

Notes:

Check all doors, corridors and elevators to ensure adequate clearances for moving of the equipment. Below are the minimum required passage clearances when moving a BrightView XCT System

Door Width = 44" (1118mm)
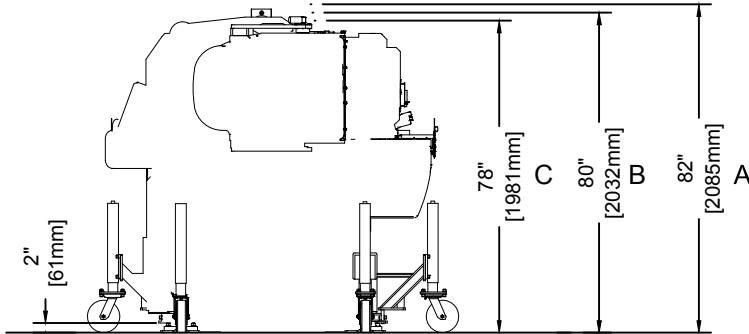Corridor Width = 72" (1829mm)

Door Width = 44" (1118mm)
Corridor Width = Straight thru delivery

Minimum Door Heights
Minimum door height required for BrightView XCT Gantry on gantry dollies = 82 (2083mm).

Gantry Transportation Wheels (12NC #4535 608 24131)

BrightView XCT Gantry Delivery Access
Not to scale

(10.1)

Shipping Sizes and Weights

Case	Length	Width	Height	Weight (lbs)
Gantry				
Crated (Int.)	55" (1397mm)	91" (2311mm)	91" (2311mm)	4500
Transport (N.A.)	50" (1270mm)	81" (2057mm)	81" (2057mm)	3950
Table				
Crated (Int.)	103" (2616mm)	42" (1067mm)	50" (1270mm)	975
Transport	103" (2616mm)	42" (1067mm)	50" (1270mm)	476
Acquisition Cart				
Crated (Int.)	31" (787mm)	31" (787mm)	44" (1118mm)	100
Transport	30" (762mm)	30" (762mm)	36" (914mm)	50
NM Workstation (EBW)				
Crated (Int.)	31" (787mm)	31" (787mm)	34" (864mm)	151
Transport	22" (559mm)	9" (229mm)	22" (559mm)	120
Recon PC				
Crated (Int.)	37" (940mm)	25" (635mm)	13" (330mm)	55
Transport	26" (660mm)	17" (432mm)	5" (127mm)	50
5kVA APC Smart RT UPS				
Crated (Int.)	29" (737mm)	33" (838mm)	20" (508mm)	125
Transport	29" (737mm)	33" (838mm)	20" (508mm)	125
High Voltage Generator				
Crated (Int.)	38" (965mm)	38" (965mm)	59" (1499mm)	413
Transport	37" (940mm)	38" (965mm)	58" (1473mm)	328
Collimator Storage Cart				
Crated (Int.)	56" (1422mm)	40" (1016mm)	59" (1499mm)	900 wcase using HEGP
Transport	45" (1143mm)	22" (559mm)	44" (1118mm)	635 w/case using HEGP

Dimensions (header spanning Length, Width, Height)

PHILIPS

Project
BrightView XCT
Standard Reference Drawing
Not Site Specific
-

Philips Contacts
Project Manager:
Contact Number:
Email:
Drawn By:

Project Details
Drawing Number
N-SRD080008
Date Drawn: 12/2/2010
Quote: None
Order: None

(9.0)

AD3

11.19.10

Equipment Support Information

1. General

The customer shall be solely responsible, at its expense, for preparation of the site, including any required structural alterations. The site preparation shall be in accordance with this plan and specifications, the architectural/construction drawings and in compliance with all safety and building codes. The customer shall be solely responsible for obtaining all construction permits from jurisdictional authority.

2. Equipment Anchorage

Philips provides, with this plan and specifications, information relative to equipment size, weight, shape, anchoring hole locations and forces which may be exerted on anchoring fasteners. The customer shall be solely responsible, through the engineer of record for the building, to provide on the architectural/construction drawings, information regarding the approved method of equipment anchoring to floors, wall and/or ceiling of the building. Any anchorage test required by local authority shall be the customer's responsibility. Stud type anchor bolts should not be specified as they hinder equipment removal for service.

3. Floor Loading and Surface

Philips provides, with this plan and specifications, information relative to size, weight and shape of floor mounted equipment. The customer shall be solely responsible, through the engineer of record for the building, to provide on the architectural/construction drawings confirmation of the structural adequacy of the floor upon which the equipment will be placed. Any load test required by local authority, shall be the customer's responsibility. The floor under the four Gantry floor support pads, the floor where the exchanger cart will reside during exchanges (between the Gantry and Patient Table) and the floor under the Patient table must be at the same level within 0.25" (6.4mm). See SD3 sheet for floor levelness information.

Non-carpet, anti-static, spill resistant floor material such as tile and vinyl are required.

4. Ceiling Support Apparatus

Philips provides, with this plan and specifications, information relative to size, weight and shape of ceiling supported equipment. The customer shall be solely responsible, through the engineer of record for the building, to provide on the architectural/construction drawings, information regarding the approved method of structural support apparatus, fasteners and anchorage to which Philips will attach equipment. Any anchorage and/or load test required by local authority shall be the customer's responsibility.

The structural support apparatus surface to which Philips equipment is to be attached, shall have horizontal equipment attachment surfaces parallel, square and level to within plus or minus 1/16" (2mm).

Any drilling and/or tapping of holes required to attach Philips equipment to the structural support apparatus shall be the responsibility of the customer.

Fasteners/anchors (i.e., bolts, spring nuts, lock and flat washers) and strip closures shall be provided by the customer.

5. Lighting

Lighting fixtures shall be placed in such a position that they are not obscured by equipment or its movement, nor shall they interfere with Philips ceiling rails and equipment movement or otherwise adversely affect the equipment. Such lighting fixture locations shall be the sole responsibility of the customer.

6. Ceiling Obstructions

There shall be no obstructions that project below the finished ceiling in the area covered by ceiling suspended equipment travel.

7. Seismic Anchorage (For Seismic Zones Only)

All seismic anchorage hardware, including brackets, backing plates, bolts, etc., shall be supplied and installed by the customer/contractor unless otherwise specified within the support legend on this sheet. Installation of electronic cabinets to meet seismic anchorage requirements must be accomplished using flush mounted expansion type anchor/bolt systems to facilitate the removal of a cabinet for maintenance. Do not use threaded rod/adhesive anchor systems.

Philips Contacts
Project Manager:
Contact Number:
Email:
Drawn By:

Project Details
Drawing Number
N-SRD080008
Date Drawn: 12/2/2010
Quote: None
Order: None

Project
BrightView XCT
Standard Reference Drawing
Not Site Specific
-

SN

(10.0)

11.19.10

Support Legend

A Furnished and installed by Philips
B Furnished by customer/contractor and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing
F Future
G Optional

	Item Number	Description	Detail Sheet
A	F1	Gantry Rear Foot Steel Plate	SD1
A	F2	Gantry Front L Bracket	SD1
A	F3	Table Pivot	SD1
A	F4	Table Pin Hole	SD1
C	F5	In-Room Lead Shield Support	---

Floor Support Layout

Minimum Ceiling Height: 8'-0" (2438mm)

0 1' 2' 4' 8'

0 .5m 1m 2m

Philips Contacts
Project Manager:
Contact Number:
Email:
Drawn By:

Project Details
Drawing Number
N-SRD080008
Date Drawn: 12/2/2010
Quote: None
Order: None

Project
BrightView XCT
Standard Reference Drawing
Not Site Specific
-

S1

PHILIPS

PHILIPS

Front Gantry Brackets
8x Anchor Holes
0.75" (19mm).   2x (B)
(Provided by Philips)

Rear Non-Seismic Gantry Brackets
2x Anchor Holes 0.50" (13mm).
(Provided by Philips)

Rear Seismic Gantry Brackets
3x Anchor Holes and
4x alternate holes 0.71" (18mm).
(Provided by Philips)

88.00"
[2235mm]

50.19"
[1275mm]

22.19"
[564mm]
.88"
[22mm]

25.13"
[638mm]

45.75"
[1162mm]

2.75"
[70mm]

Detector Iso-Center

Do not use this bolt hole

Table Pivot Point
(C)

70.68"
[1795mm]

4.57"
[116mm]

4.57"
[116mm]

17.50"
[445mm]
14.75"
[375mm]

35.00"
[889mm]

19.00"
[483mm]
19.75"
[502mm]
22.88"
[581mm]
26.00"
[660mm]
26.75"
[679mm]

3.23"
[82mm]

3.23"
[82mm]

3.23"
[82mm]

4.25"
[108mm]

5.37"
[136mm]

Table Pin Point
(D)

Do not use this bolt hole

6.13"
[156mm]

4.00"
[102mm]

4.25"
[108mm]

22.25"
[565mm]

5.75"
[146mm]

5.88"
[149mm]
7.75"
[197mm]

20.88"
[530mm]

38.13"
[969mm]

25.12"
[638mm]

70.68"
[1795mm]

67.51"
[1715mm]

138.19"
[3510mm]

Non Seismic Plate

Do not use this bolt hole

Seismic Plate

2x (A)

Floor Anchoring Notes:

Location		Note	
Gantry Rear	(A)	Non-Seismic Plate is 3.5" (89mm) x 8.25" (210mm) x 1"(25mm). Two anchors are required for the non-seismic plate. Seismic Plate is 10" (254mm) x 8" (203mm) x 0.5" (12.7mm) rear foot steel plate. Four anchors are required for the seismic plate.	F1
Gantry Front	(B)	Two anchors in outer side holes required for California installs.	F2
Table Pivot	(C)	Four .472" (12mm) x 4.75" (121mm) HSL - 3 M12/25 Hilti floor anchors for flush mounted pivot bearing.	F3
Table Pin	(D)	1.5" (38mm) diameter hole for three .25" (6.4mm) masonry screws for flush mounted pin-securing plate.	F4

For non-California, all anchors are 0.50" (13mm) x 5.50" (140mm) Hilti Kwik Bolt III with 3.50" (89mm) concrete embedment. Minimum 1.5" (38mm) projection of the bolt above floor level is needed. Concrete must be a minimum of 4" (102mm) thick.

Note: A licensed structural engineer will need to verify if other types of mounting hardware are required depending on site construction conditions and local building code requirements. The contractor will need to purchase the appropriate installation materials locally.

Mylar Drill Template 4535 608 25061 A, may be pre-ordered if site wants to drill anchors before starting installation.
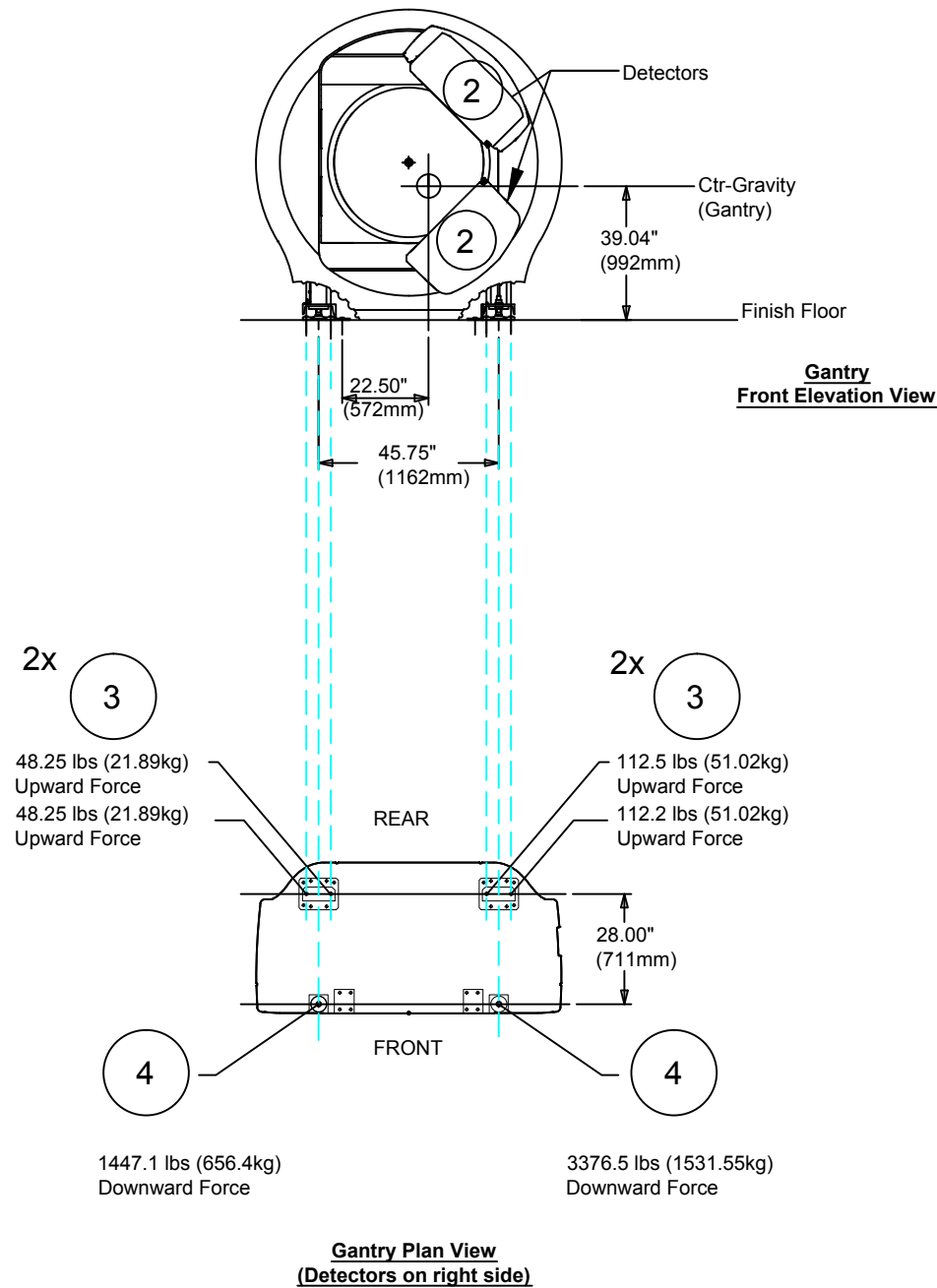
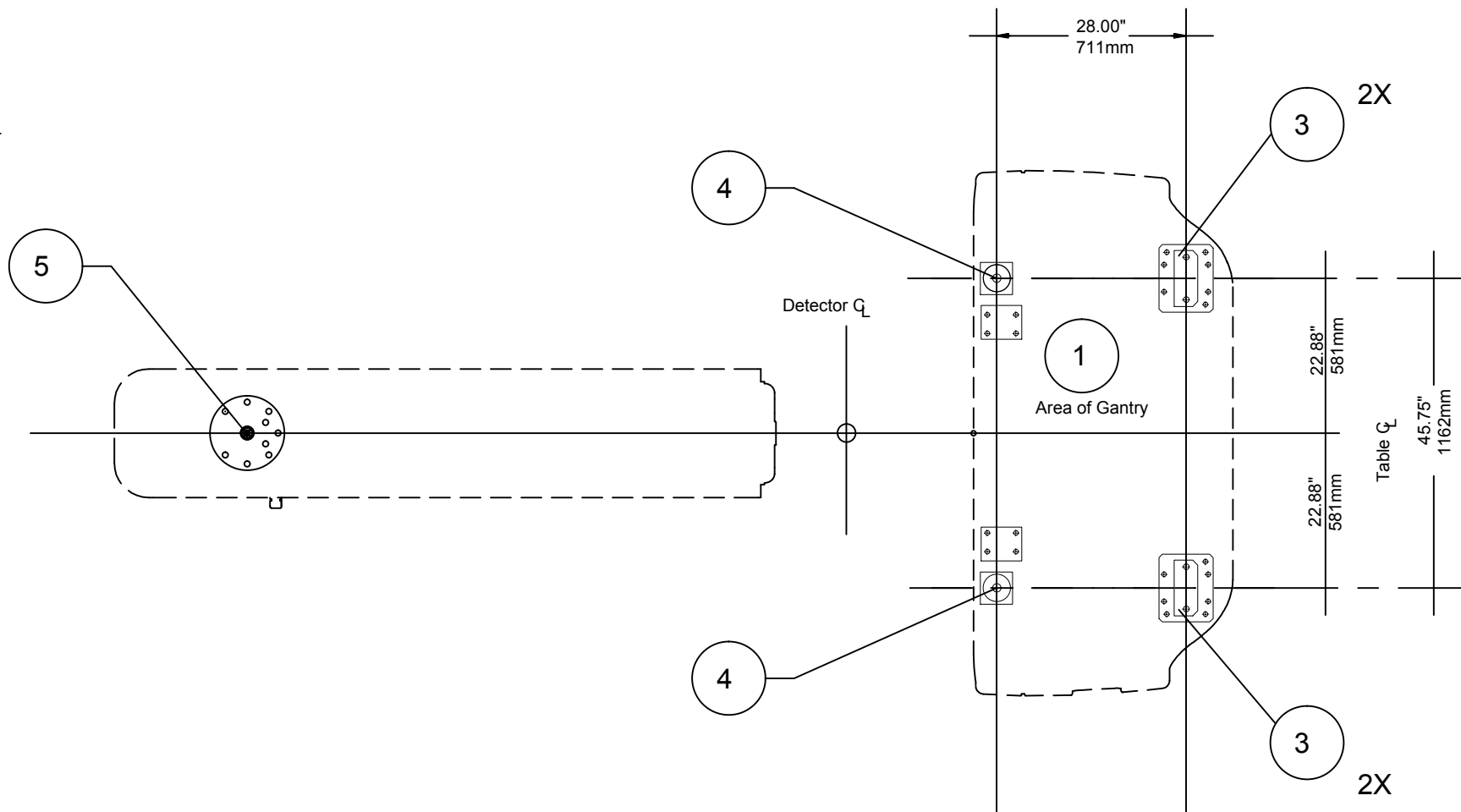**BrightView XCT System Floor Anchoring Detail**
Not to scale

(10.4)

11.19.10

Floor Loading Notes:

1. Total Gantry Load (Including two HEGP collimators on gantry) is 4500 lbs (2041kg) in a 45.74" (1162mm) x 28" (711mm) area.

2. Since the detector heads can rotate around the Center of Gravity, the loads shown on the right side can also be on the left side.

3. Rear Gantry Load is upward force of 48.25 lbs (21.89 kg) - 112.5 lbs (51.02 kg) on each of the four rear anchors. Force changes as the detector rotates from the right to left side.

4. Front Gantry Load is downward force 1447.1 (656.4 kg) - 3376.5 lbs (1531.55 kg) on each of the two 4" (102mm) dia. front leveling feet. Force changes as the detector rotates from the right to left side.

5. Table load (including 450 lbs, 204 kg patient) is 1000 lbs (454 kg) in a 26.25" (669mm) x 65.25" (1657mm) area. The load is equally distributed on four wheels.

Note: A licensed structural engineer will need to verify that floor can support weight.

Gantry Front Elevation View

Detectors

Ctr-Gravity (Gantry)

39.04" (992mm)

Finish Floor

22.50" (572mm)

45.75" (1162mm)

Gantry Plan View (Detectors on right side)

2x ③
48.25 lbs (21.89kg) Upward Force
48.25 lbs (21.89kg) Upward Force

REAR

2x ③
112.5 lbs (51.02kg) Upward Force
112.2 lbs (51.02kg) Upward Force

28.00" (711mm)

FRONT

④ 1447.1 lbs (656.4kg) Downward Force

④ 3376.5 lbs (1531.55kg) Downward Force

28.00" 711mm

2X ③

④

Detector C̵

① Area of Gantry

22.88" 581mm

22.88" 581mm

Table C̵

45.75" 1162mm

④ ⑤

③ 2X

BrightView XCT Camera Gantry Floor Loading Detail
Not to scale

(10.1)

General Total Floor
Area for Waviness and
Levelness Boundary

Isocenter   Gantry

24.00"
[610mm]

84.00"
[2134mm]

120.00"
[3048mm]

Exchanger

Gantry

58.00"
[1473mm]

180.00"
[4572mm]

Layout View

0.25" (6.3mm) Total

Levelness   Waviness

See Note 1 for maximum waviness span.

See Note 2 for maximum levelness span.

Grade Elevation
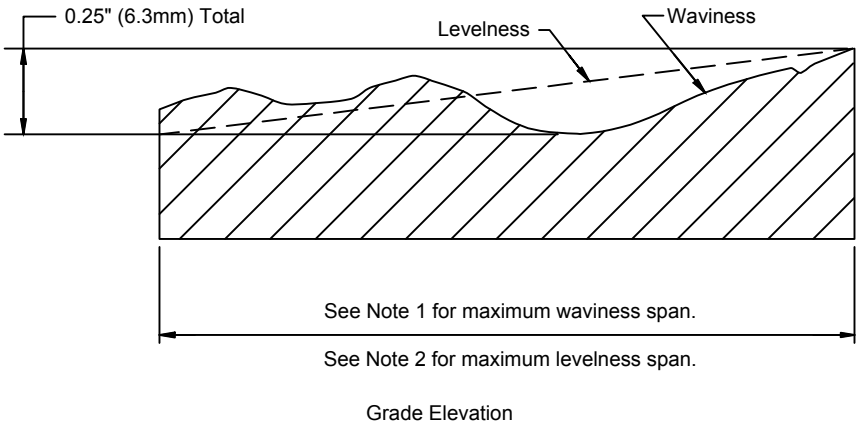
BrightView XCT Floor Levelness/Waviness Detail   (10.1)

Notes:

1. Floor waviness of exam room shall not exceed .25" (6.3mm) when measured within
12" (300mm) from any point within the shaded area on layout.

2. Floor levelness of exam room shall not exceed .25" (6.3mm) when measured
between any two boundary points across the shaded area on layout.

3. Philips recommends that the floor levelness within the entire 180" (4572mm) x 120"
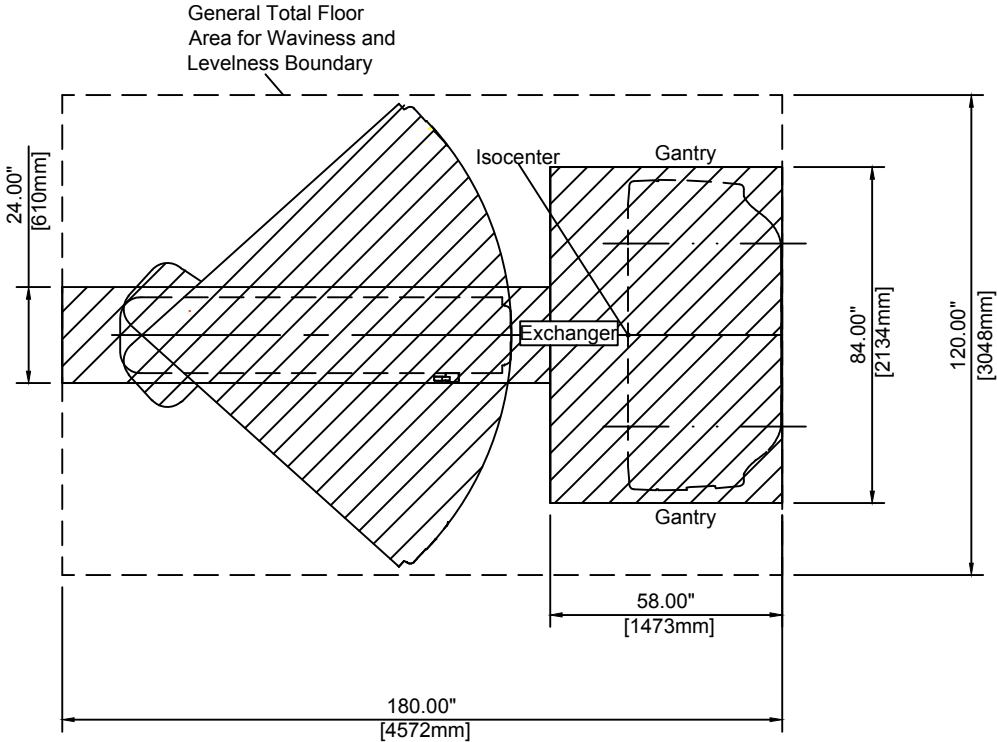(3048mm) area not exceed .25" (6.3mm).

4. The shaded area is where the .25" (6.3mm) specification is mandatory.

**Floor surface to be flat and level to within
0.25" (6.35mm)**

79.50"
[2019mm]

38.75"
[984mm]

12.00"
[305mm]

12.00"
[305mm]

18.00"
[457mm]
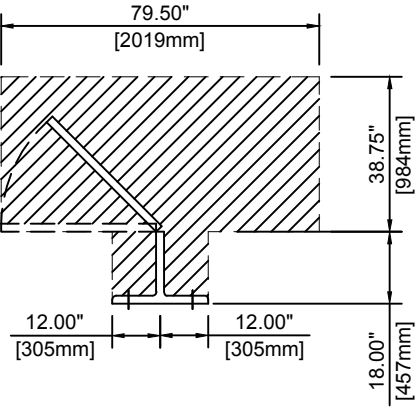
**BrightView XCT In-Room Control Lead
ShieldFloor Levelness/Waviness Detail**   (10.0)

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PHILIPS

General Electrical Information

1. General

The customer shall be solely responsible, at their expense, for preparation of the site, including any required electrical alterations. The site preparation shall be in accordance with this plan and specifications, the architectural/construction drawings and in compliance with all safety and electrical codes, the customer shall be solely responsible for obtaining all electrical permits from jurisdictional authority.

2. Materials and Labor

The customer shall be solely responsible, at its expense, to provide and install all electrical ducts, boxes, conduit, cables, wires, fittings, bushings, etc., as separately specified herein.

3. Electrical Ducts and Boxes

Electrical ducts and boxes shall be accessible and have removable covers. Floor ducts and boxes shall have watertight covers. Ducts shall be divided into as many as three separate channels by metal dividers, separately specified herein, to separate wiring and/or cables into groups as follows: Group A, power wiring and/or cables. Group B: signal and/or data and protective ground wiring and/or cables. Group C: x-ray high voltage cables. The use of 90 deg. ells is not acceptable. On ceiling duct and wall duct use 45 deg. bends at all corners. All intersecting points in duct to have cross over tunnels supplied and installed by contractor to maintain separation of cables.

4. Conduit

Conduit point-to-point runs shall be as direct as possible. Empty conduit runs used for cables may require pull boxes located along the run. A pull wire or cord shall be installed in each conduit run. All conduits which enter duct prior to their termination point must maintain separation from other cables via use of dividers, cross over tunnels, or flex conduit supplied and installed by contractor from entrance into duct to exit from duct. Maximum conduit lengths shown on these plans are calculated from electrical box entrance to electrical box entrance. Any conduit installed below grade must be water tight.

5. Conductors

All conductors, separately specified, shall be 90° C stranded copper, rung out and marked.

6. Disconnecting Means

A disconnecting means shall be provided as separately specified on sheet ED1.

7. Warning Lights and Door Switches

"X-ray on" warning lights and x-ray termination door switches should be provided at all entrances to x-ray rooms as required by code.

(08.0)

Electrical Notes

1. The contractor will supply & install all breakers, shunt trip and incoming power to the breakers based on local code requirements and Philips cable requirements on sheet ED1. The exact location of the breakers and shunt trips will be determined by the architect or contractor.

2. The contractor shall supply & install all pull boxes, raceways, conduit runs, steel covers, etc. Conduit/raceways must be free from burrs and sharp edges over its entire length. Electrical raceway shall be installed with removable covers. The raceway should be accessible for the entire length. In case of non-accessible floors, walls and ceilings, an adequate number of access hatches should be supplied to enable installation of cabling. Approved conduits may be substituted. All raceways will be designed in a manner that will not allow cables to fall out of the raceway when the covers are removed. In most cases, this will require above-ceiling raceway to be installed with the covers removable from the top. Raceway system as illustrated on this drawing are based upon length of furnished cables. Any changes in routing of raceway system could exceed maximum allowable length of furnished cables. Conduit or raceway above-ceiling must be kept as near to finished ceiling as possible.

3. All pre-terminated, cut-to-length cables, will be supplied and installed by Philips. All wires through the main disconnect and to the gantry will be supplied and installed by the contractor, subject to local arrangments.

4. Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with Philips, local or national Electrical Codes, whichever requires the largest diameter.

5. Convenience outlets are not illustrated. Their number and location are to be specified by the customer/architect. Locate at least one duplex outlet within 2'-0" (610 mm) of the system rack cabinet (s) and at least three (3) outlets spaced around the control room.

6. All sections of raceway and conduit shall be grounded with an independent #6 a.w.g.green wire that is to be attached using solderless lugs. All ceiling mounted structural support members and ceiling plates shall also be grounded. All grounding connections, terminals, etc. shall be installed in a manner to provide accessibility for inspection, maintenance, repair, etc.

(09.0)

PHILIPS

Project
BrightView XCT
Standard Reference Drawing
Not Site Specific
-

Philips Contacts
Project Manager:
Contact Number:
Email:
Drawn By:

Project Details
Drawing Number
N-SRD080008
Date Drawn: 12/2/2010
Quote: None
Order: None

EN

11.19.10

Electrical Legend

A Furnished and installed by Philips
B Furnished by customer/contractor and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing
F Future
G Optional

Item Number

Detail Sheet

Description

	Item	Description	Detail Sheet
B	A1	400 - 480 V, 40 A circuit breaker. Locate circuit breaker 60" (1524mm) above finished floor to top of circuit breaker. Circuit breaker used shall be UL listed or recognized, rated maximum 40 A; to ensure compliance to IEC 60328, verify that circuit breaker is not marked with a Greek symbol, and look for VDE, TUV, NEMKO, SEMKO, DEMKO or FIMKO certification mark. Location per local code or owner's requirements. Coordinate with Philips.	ED1
B	A2	24 VAC, 1 A minimum rating, remote emergency off (EPO), latching type, single mushroom push button, with N.O. dry contacts, and hinged, see-through protective cover. Facility power required to this device. Surface mounted 60" (1524mm) above finished floor to centerline of box. (Optional).	ED1
B	UPS HVG	8" (203mm) W x 4 3/4" (121mm) L grommeted cable opening at bottom of cover plate on "WR1". Preferred location behind final location of "UPS" and "HVG".	
B	WS	Grommeted cable opening at end of "FR1". Exact size and location to be determined by local Philips Service.	
B	FR1	(2) 8" (203mm) W x 8" (203mm) D (NEMA 1 Gutters; Hoffman or equivalent) surface mounted floor trough side by side. Install barrier strip(s) to separate compartments if necessary.	
B	WR1	(2) 8" (203mm) W x 8" (203mm) D (NEMA 1 Gutters; Hoffman or equivalent) surface mounted wall raceway side by side and stacked with removable steel cover plate, bottom 8" (203mm) above finished floor. Install barrier strip(s) to separate compartments if necessary.	
B	R1	6" (152mm) W x 2" (51mm) D (or equivalent) surface mounted riser with removable steel cover plate. Riser to run from "WR1" up to bottom of "A1" box.	
B	PT	4" (102mm) W x 4" (102mm) L x 4" (102mm) D flush mounted floor box. Shall contain a field cut opening with grommet located by Philips Service at time of installation.	E2
B	LS	4" (102mm) W x 4" (102mm) L x 4" (102mm) D flush mounted junction box. Removable cover plate shall contain a grommeted notch for cable access as required. 37" (940mm) from floor to bottom of box. Preferred location behind final location of In Room Lead Shield. Consult with local Philips Service for exact location of junction box.	E2
B	WL	Warning light above X-ray room door, if required by code or desired by customer. (not shown)	ED1 ED2
B	DS	Door activated switch Square-D cat. # class 9007 type AO (or required), if required by code or desired by customer. Switch located on hinge side of door. (not shown)	ED1 ED2
B	S1	120 VAC / 15 A, single pole general purpose ON/OFF switch red cover. Flush mounted 60" (1524mm) above finished floor to centerline of box. safety switch is required between scanner unit and "WL" for Philips Service, if a warning light is used. Locate next to "A1" if possible. (not shown)	ED1 ED2
B	⏚¹	120 V / 20A dedicated duplex outlet.	
B	N1	RJ45 type ethernet 100/1000 Mbit network connector. Access to customer's network via their remote access server is needed for Remote Service network (RSN) connectivity.	N1
B	N2	RJ45 type ethernet 100/1000 Mbit network connector (1000 Mbit recommended) with access to customer's network. Locate within 10' (3048mm) of network card. network fiber optic and ethernet cabling, connectors, wall boxes, patch panels, etc. are the responsibility of the purchaser. Philips assumes no responsibility for procurement, installation, or maintenance of these components.	N1

Project Details
Drawing Number
N-SRD080008
Date Drawn: 12/2/2010
Quote: None
Order: None

Philips Contacts
Project Manager:
Contact Number:
Email:
Drawn By:

Project
BrightView XCT
Standard Reference Drawing
Not Site Specific
-

EL

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED.

11.19.10

Electrical Layout

Minimum Ceiling Height: 8'-0" (2438mm)

0	1'	2'	4'	8'

0	.5m	1m	2m
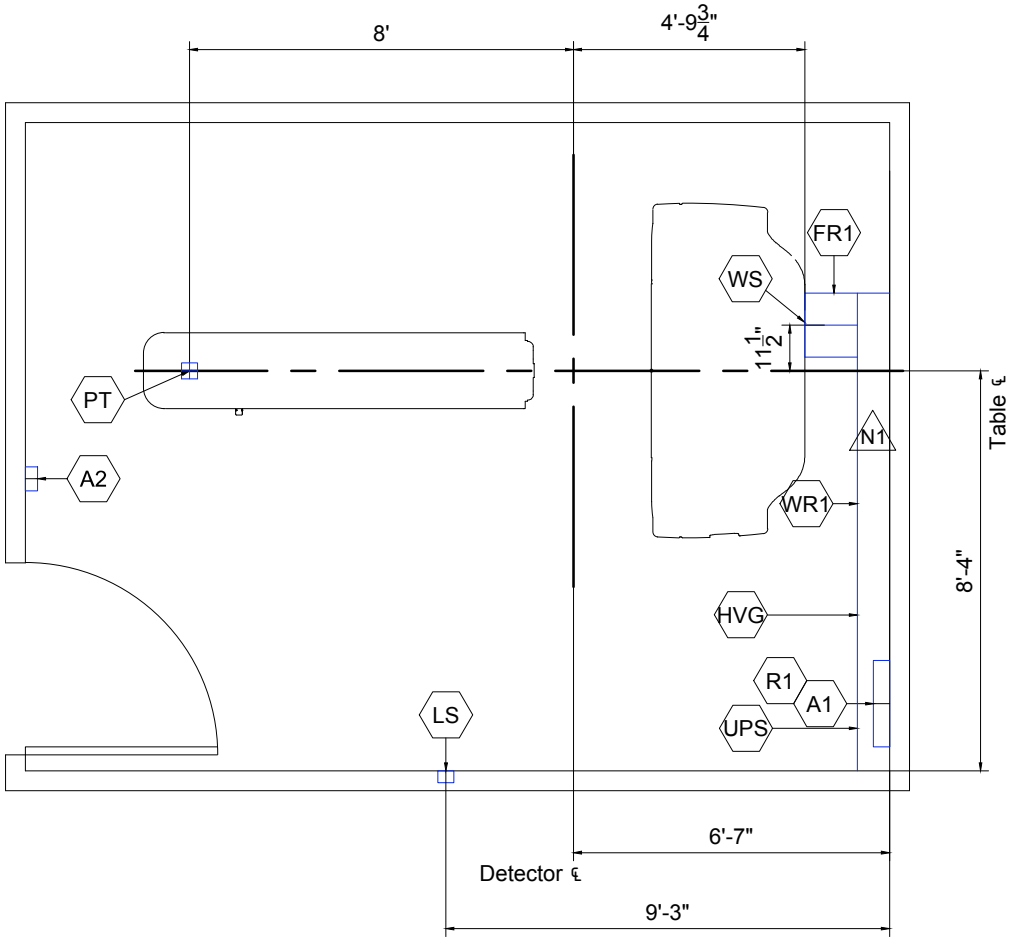
SURFACE RACEWAY AT GANTRY NOTE

Contractor to coordinate with local Philips service representative regarding the adaption of surface mounted floor raceways with sides Scanner Unit. The following must be considered:

1. Raceways to be fitted and installed after the gantry is positioned and bolted in place.

2. Field measure and verify required fittings and size at the time of raceway installation.

3. Metallic raceways and piping must not come in contact with any metallic parts of the gantry.
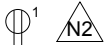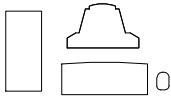
Electricals for Extended Nuclear Workstation.
Locate near final location of workstation. Coordinate with local Philips Service.

8'

4'-9 3/4"

11 1/2"

Table ℄

8'-4"

6'-7"

9'-3"

Detector ℄

FR1

WS

PT

A2

N1

WR1

HVG

R1 A1

UPS

LS

Philips Contacts
Project Manager:
Contact Number:
Email:
Drawn By:

Project Details
Drawing Number
N-SRD080008
Date Drawn: 12/2/2010
Quote: None
Order: None

Project
BrightView XCT
Standard Reference Drawing
Not Site Specific
-

Refer to Electrical Legend - Sheet EN
and Electrical Connections - Sheet E2

E1

PHILIPS

11.19.10

Note: - Conduit routings determined by contractor within specified conduit length limits. - All material and labor provided by contractor. - Given conduit diameters shall comply with applicable national and local codes. - Junction box sizes shall comply with applicable national and local codes.

480 VAC Incoming Power

Room Circuit Breaker (A1)

Emergency Power Off (A2) (facility power required)

Vertical Riser (R1)

Lead Shield (LS)

39.00" 991mm

24.00" 610mm

8.00" 203mm

Finished Floor

Warning Light (WL)

Switch for Warning Light (S1)

Door Switch (DS)

60.00" 1520mm

120 VAC 60 hz or 230 VAC 50 hz Incoming Power Single Phase to "WL"

Wall Raceway (WR1)

To Control Area (Optional)

Grommeted Opening on "WR1" for (HVG)

Grommeted Opening on "WR1" for (UPS)

Grommeted Opening on "FR1" for Gantry Cable Access (WS)

Surface Mounted Trough (FR1)

To patient couch

Flush Mounted Floor Box for Patient Table (PT)

Typical Conduit and Cable Routing
Not to scale

(10.1)

Refer to Electrical Legend - Sheet EL and Electrical Plan - Sheet E1

The use of 90 degree ells is not acceptable use 45 degree bends at all raceway corners. The use of crossover tunnels at all applicable locations is required.

The minimum bend radius of the fiber optic cables is 2" (51mm).

Conduit Required

General Notes

1. All conduit runs must take most direct route point to point.
2. All conduit runs must have a pull string.

A	Conduit supplied/installed by contractor - Philips cables installed by Philips
B	Conduit supplied/installed by contractor - Philips cables installed by contractor
C	Conduits and cables supplied and installed by contractor
D	Conduit existing - cables supplied and installed by Philips
E	Conduit existing - cables supplied by Philips, installed by contractor
F	Conduit existing - cables supplied and installed by contractor
G	Optional equipment, verify with local Philips Service

- P Power (AC)
- D Power (DC)
- G Ground
- * S Signal
- H High Tension
- C Cooling Hose
- A Air Supply Hose

	Conduit			Conduit Quantity	Cable Type (*)	Minimum Conduit Size	Maximum Conduit Length	Special Requirements
	Run No.	From	To					
C	1	Hosp. Power	A1	Per N.E.C.	(P)	Per N.E.C.	Per N.E.C.	
C	2	Hosp. Power	WL	Per N.E.C.	(P)	Per N.E.C.	Per N.E.C.	
C	3	WL	S1	1	(P)	3/4"	100'	
C	4	S1	R1	1	(P)	3/4"	100'	Conduit run for connection between "WS" and "S1". Cable route continued thru raceway/trough.
C	5	R1	DS	1	(P)	3/4"	200'	Conduit run for connection between "WS" and "DS". Cable route continued thru raceway/trough.
B	6	A1	WS	1	(P)	2"	21'	Cable routed thru raceway/trough.
C	7	A1	A2	1	(P)	3/4"	100'	
A	8	WS	PT	1	(P)	3"	21'	
A	9	WS	LS	1	(P)	2"	60'	

Project
BrightView XCT
Standard Reference Drawing
Not Site Specific
-

Philips Contacts
Project Manager:
Contact Number:
Email:
Drawn By:

Project Details
Drawing Number
N-SRD08008
**Date Drawn: 12/2/2010**
Quote: None
Order: None

E2

PHILIPS

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11.19.10

Run Distances and Conductor Sizes
BrightView XCT Configuration   (10.0)

All Wires Shown Below Shall Be Supplied
and Installed by the Customer / Contractor.

Run distances and cable/conductor sizes from Distribution Source or Power unit to Room Main Disconnect/Circuit Breaker or Fuse is based on 400-480 VAC wire size. Wire size for other voltages is determined by calculating the size required for 1% voltage drop at 12kVA (consult factor if assistance is required).
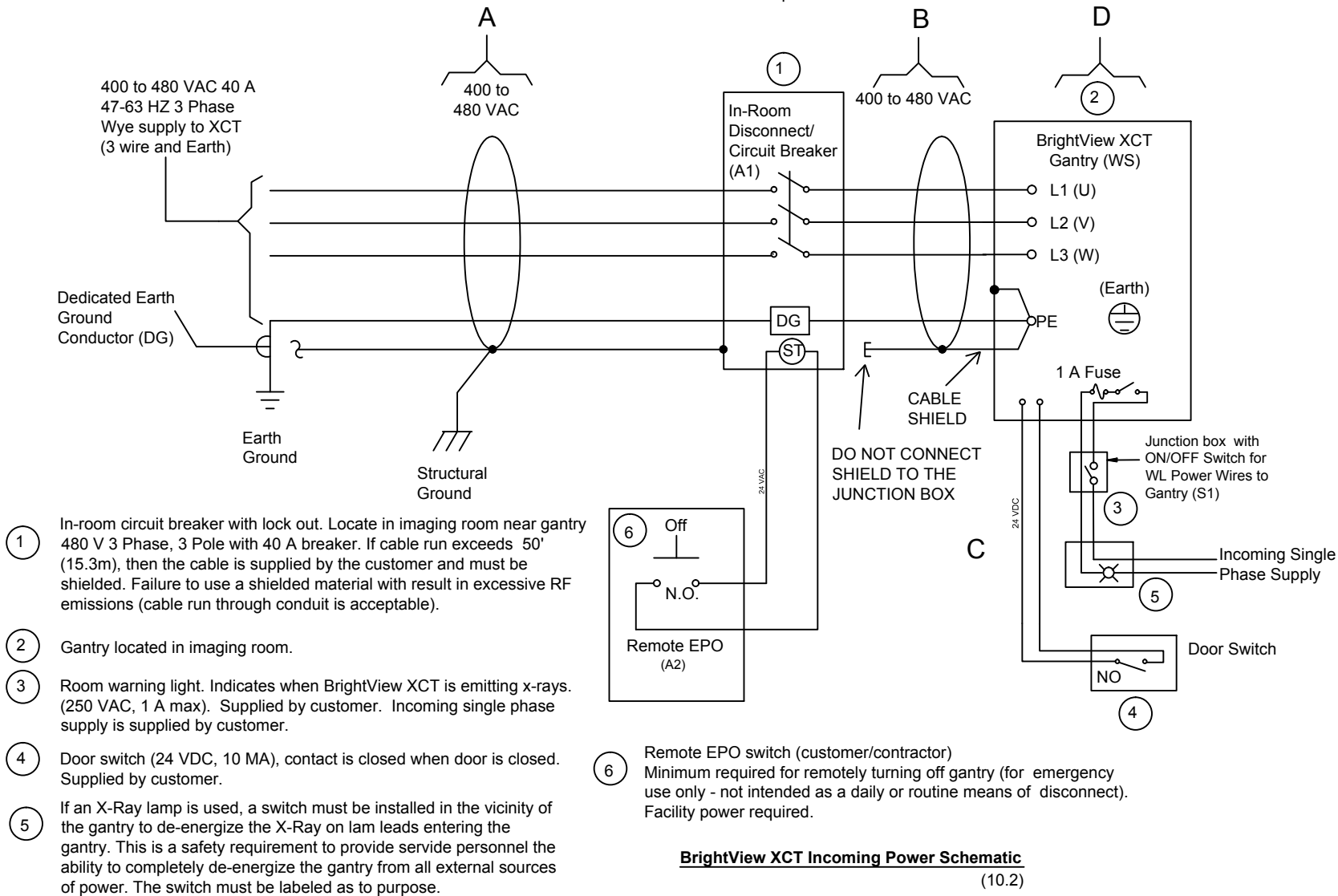
Note: Wiring and circuit sizes from source supply must meet Philips regulation requirements and be determined by contractor to meet building conditions and local codes.

A
Copper Wire Size [run from Distribution Source or Power Unit to Room Disconnect (A1) based on 400-480 VAC load side]: (200 feet [61m] max listed)

16mm^2 (4 #6) Power & Dedicated Ground (PE)   0' - 200' (61m)

C
Copper Wire Size [run from Rear of gantry to the door Switch and Lamp:
(100 feet [29.4m] max listed)

0.2mm^2 - 4mm^2 (2 #24 - #12) Power   0' - 100' (29.4m)

B
Copper Wire Size [run from Room Disconnect (A1) to rear of gantry :
(25 feet [7.6m] max listed)

#8 AWG 10mm^2 (4 #8) Power and Dedicated Ground (PE)   0' - 25' (7.6m)

All Wires Shown Above Shall Be Provided by Philips
and Installed by the Customer / Contractor.

Wiring and circuit sizes from source supply must be determined by contractor to meet building conditions and local codes.

Circuit breaker to gantry 25' (7.6m) shielded cable supplied by Philips. A 50' (15.3m) optional cable (P/N: 453560822461) may be ordered from Philips. If you are running mains cable/conductors through a metal conduit then the shielded cable is not required.

400 to 480 VAC 40 A 47-63 HZ 3 Phase Wye supply to XCT (3 wire and Earth)

Dedicated Earth Ground Conductor (DG)

Earth Ground

Structural Ground

A
400 to 480 VAC

1 In-Room Disconnect/ Circuit Breaker (A1)

B
400 to 480 VAC

D
2

BrightView XCT Gantry (WS)

L1 (U)
L2 (V)
L3 (W)

(Earth)
PE

DG
S1

E

CABLE SHIELD

DO NOT CONNECT SHIELD TO THE JUNCTION BOX

1 A Fuse

Junction box with ON/OFF Switch for WL Power Wires to Gantry (S1)

3

C

Incoming Single Phase Supply

5

Door Switch

NO

4

6 Off

N.O.

Remote EPO (A2)

1. In-room circuit breaker with lock out. Locate in imaging room near gantry 480 V 3 Phase, 3 Pole with 40 A breaker. If cable run exceeds 50' (15.3m), then the cable is supplied by the customer and must be shielded. Failure to use a shielded material with result in excessive RF emissions (cable run through conduit is acceptable).

2. Gantry located in imaging room.

3. Room warning light. Indicates when BrightView XCT is emitting x-rays. (250 VAC, 1 A max). Supplied by customer. Incoming single phase supply is supplied by customer.

4. Door switch (24 VDC, 10 MA), contact is closed when door is closed. Supplied by customer.

5. If an X-Ray lamp is used, a switch must be installed in the vicinity of the gantry to de-energize the X-Ray on lam leads entering the gantry. This is a safety requirement to provide servide personnel the ability to completely de-energize the gantry from all external sources of power. The switch must be labeled as to purpose.

6. Remote EPO switch (customer/contractor) Minimum required for remotely turning off gantry (for emergency use only - not intended as a daily or routine means of disconnect). Facility power required.

BrightView XCT Incoming Power Schematic
(10.2)

D
Mains Supply and Power Quality Requirements
BrightView XCT Configuration   (09.0)

Mains Supply

Supply Configurations:	3 phase Wye, 3 wires and Earth (L1, L2, L3, PE) to camera
Mains Fuse (standard):	40 A, slow blow
Measured Current: (inrush, standby, Idle, maximum)	Inrush 60 A, 5ms max. Idle 4 A, 3 phase average Standby 0.61 A, 3 phase average ("Standby" = Only the Detector HV PSU & Flat panel active) Maximum 14 A (12 kVA scan @ 480 VAC) 12 sec.
Voltage variation:	+10% -10% absolute * limits
Voltage Impulse:	+/- 2 kV per IEC 61000-4-4
Voltage Surge:	+/- 2 kV per IEC 61000-4-5
Static Frequency Variation:	+/- 3%
Harmonic Voltage Distortion: (total)	10% max. Vthd

A 25' (7.6m) shielded mains power cable is provided with system to run from the junction box on the wall to the rear of the gantry at the power distribution blocks.
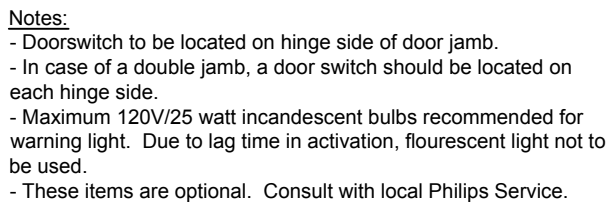
Quality System

Branch Power Recommended:	25 kVA
Maximum Power Required:	12 kVA
Nominal Input Power: [+/- 10% total (absolute) * limits]	400-480 VAC
Line Frequency Range:	47 to 63 Hz
Room disconnect/circuit breaker:	40 A
Max. Load Voltage Drop Range: [total (absolute) * limits]	360 to 528 VAC
Load Voltage Regulation:	5%
Voltage drop allowed in cable:	1%
Conductor Impedance:	Determined from 1% voltage drop, copper wires in steel conduit

* Absolute limits refer to the voltage measured at system connection terminals (power distribution blocks) on gantry. This includes all combination of source voltage variation plus voltage loss for cable run distance and devices such as (transformer).

PHILIPS

Project
BrightView XCT
Standard Reference Drawing
Not Site Specific
-

Project Details
Drawing Number
N-SRD080008
Date Drawn: 12/2/2010
Quote: None
Order: None

ED1

11.19.10

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED.

Door Switch / Warning Light / Safety Switch Detail
Not to scale

120 V, 15 A
Power Supplied to WL

3/4" (19mm) Conduit

WL

Ceiling line

S1

3/4" (19mm) Conduit

To gantry at "WS"
through 3/4" (19mm)
conduit or trough / raceway.

DS

Floor line

Notes:
- Doorswitch to be located on hinge side of door jamb.
- In case of a double jamb, a door switch should be located on each hinge side.
- Maximum 120V/25 watt incandescent bulbs recommended for warning light. Due to lag time in activation, flourescent light not to be used.
- These items are optional. Consult with local Philips Service.

WL DS S1

Project Details
Drawing Number
N-SRD080008
Date Drawn: 12/2/2010
Quote: None
Order: None

Philips Contacts
Project Manager:
Contact Number:
Email:
Drawn By:

ED2

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THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED.

PHILIPS

Radiation Considerations

Shielding Calculation Assumptions:

- The scatter dose maps presented are for a large body localization scan and correspond to a 14cm CT field of view (FoV). A SPECT field of view consists of three 14cm X-ray acquisitions at sufficient quality to enable extremity localization of the acquired SPECT data set. The technique used to acquire the maps was as follows:

    - The cylindrical CTDI body phantom was imaged. The phantom had a diameter of 32cm and an axial length of 15cm.
    - The scatter map was scaled to correspond to a 14cm CT field of view for an extremity localization study.
    - The high voltage was set to 120 kVp.

The scatter dose map has an accuracy of +/-20% due to measurement and system variations.

User situations requiring scaling of the dose scatter map for shielding calculation:

- If a site performs a significant portion of the body localization studies by only acquiring a single 14cm CT field of view, then the attached map is applicable.

- If a site performs a significant number of localization CT scans that correspond to multiple SPECT fields of view, then the dose scatter map needs to be increased by the number of SPECT fields of view multiplied by the number of CT scans required to cover a SPECT field of view (3).

- Some sites may only perform cardiac attenuation correction studies. This means that the scatter dose map must be reduced by a factor of 1/8 for the mAs used in the attenuation correction map.

- If a site performs a significant number of whole body attenuation correction exams, the scatter dose map must be reduced by a factor of 3/8 since lower mAs would be used but more CT spins are required

(08.1)

Dose Scatter Map Scaling Summary Table

Study Type	Protocol Scaling Factor	FoV Scaling Factor
14cm CT Body Localization Study	1.0	1.0
CT scans that correspond to multiple SPECT FoV	1.0	Multiply by # of SPECT FoVs * 3
Cardiac attenuation study	0.125 (Factor of 1/8 for the mAs used in the attenuation correction map.	1.0
SPECT field of view body attenuation correction exams	0.125 (Factor of 1/8 for AC mAs)	3 (3 CT FoVs to cover one SPECT FoV)
14cm CT Extremity Localization Study	1.9	1.0

NOTE:
Note that the localization studies are acquired at 80 mA and the attenuation correction studies are acquired at 20 mA. There is not a factor of four difference between the dose for these two procedures due the the pulsing of the 80 mA procedure and some differences in the generator output between pulsed and continuous modes.

### Source Characteristics

Quality	Source Type	Activity (nominal)	Manufacture	Source type	IPL Number	Sealed Source Registry	Philips Number
6	Gd-153	3.7MBq (100uCi)	Isotope Product Laboratories (IPL)	Point	MMS07-153-100U	NUREG-1556 Vol. 3 Section 5.1.1	4535 602 56811

*IPL Manufacture must register a sealed source # with the state of California for Isotope Product sale.

(10.0)
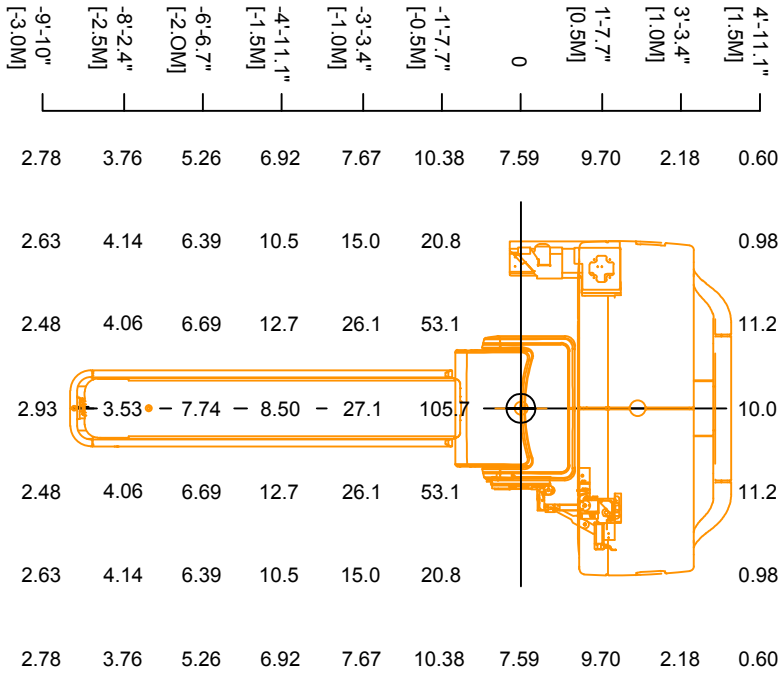
Plan & Elevation View Stray Radiation Dose Map
Brightview XCT
(not to scale)

The values shown are in µGy units which were calculated from the direct measurements. This is a preliminary typical AC protocol.

The accumulated dose in µGy:
14cm Axial FOV
20mA, 12 Sec, Continuous
Mode 1 Spin measured at 120 KVP
Values measured at 3.28" (83mm) from floor.
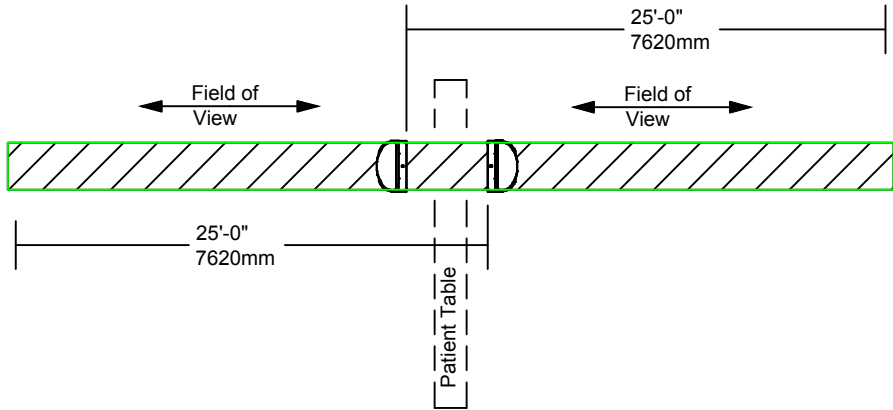
(09.1)

Project
BrightView XCT
Standard Reference Drawing
Not Site Specific
-

Philips Contacts
Project Manager:
Contact Number:
Email:
Drawn By:

Project Details
Drawing Number
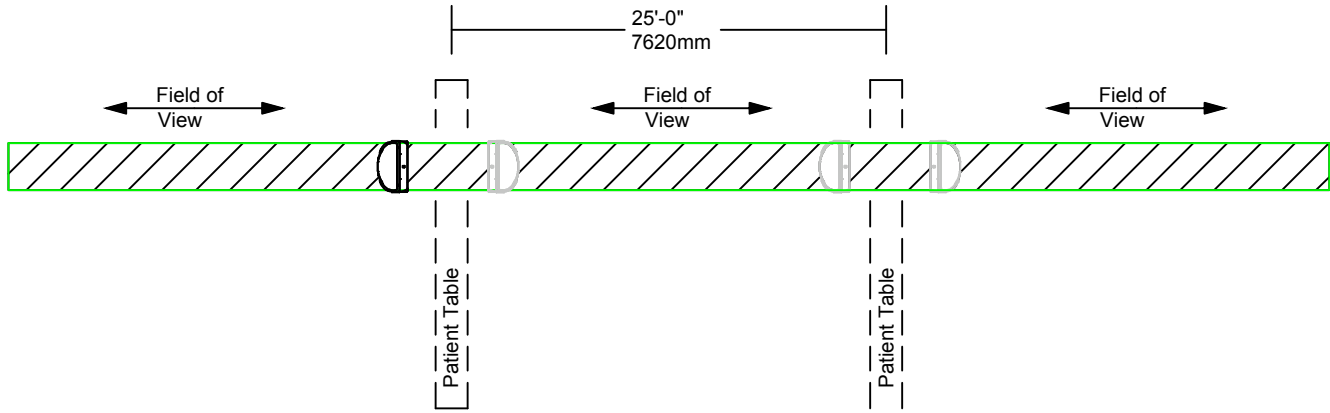**N-SRD080008**
Date Drawn: 12/2/2010
Quote: None
Order: None

MP1

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED.

PHILIPS

Alternative 1 - (Single Camera Option 1)

25'-0"
7620mm

Field of View

Field of View

25'-0"
7620mm

Patient Table

- Alternative shows Field of View is perpendicular to detector face and that no injected patient or hot source should be within 25'-0" (7620mm).
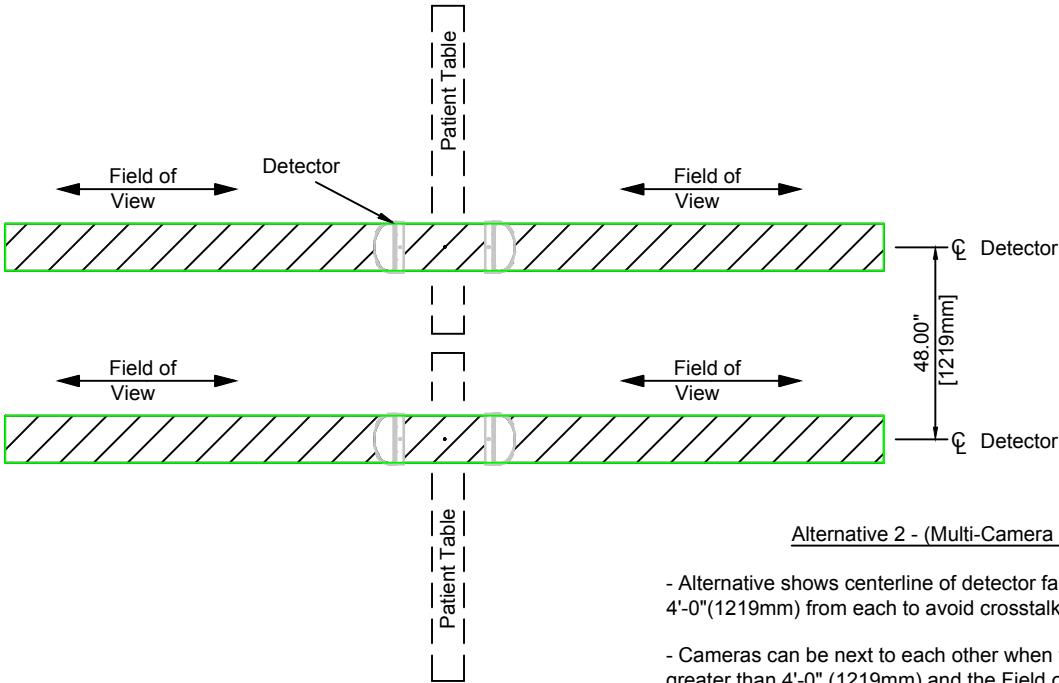
Alternative 2 - (Multi-Camera Option 1)

Patient Table

Field of View — Detector — Field of View
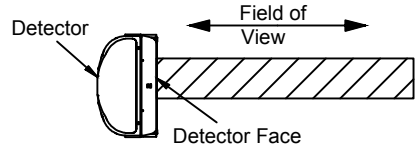
Field of View — Field of View

Patient Table

℄ Detector

48.00"
[1219mm]

℄ Detector

- Alternative shows centerline of detector face at a minimum of 4'-0"(1219mm) from each to avoid crosstalk.

- Cameras can be next to each other when the Detector Centerline is greater than 4'-0" (1219mm) and the Field of View is not in the same plane because patient is not in the Field of View of the other camera's detectors.

Alternative 3 - (Multi-Camera Option 2)

25'-0"
7620mm

Field of View

Field of View

Field of View

Patient Table

Patient Table

- Alternative shows tables being at a minimum of 25'-0" (7620mm) apart to avoid crosstalk with the Field of View being on the same plane.

- Patients must be 25'-0" (7620mm) away from the other camera's detectors and Field of View.

Notes:

1. No injected patient or hot source in the shaded area.

2. Field of View is the view perpendicular to the detector.

Detector

Field of View

Detector Face

Picture represents Field of View being perpendicular to the detector face

3. Low energy radiation is mostly for Nuclear Medicine Cameras and is <= 360 keV.

4. Transient patients injected with radionuclides, but not being imaged with this equipment must remain outside of these exclusion areas.

**Single Camera and Multi-Camera
Room Layout - Low Energy Crosstalk**
BrightView XCT

(09.0)

High Energy Crosstalk

25'-0" Radius
7620mm

PET Camera Detector
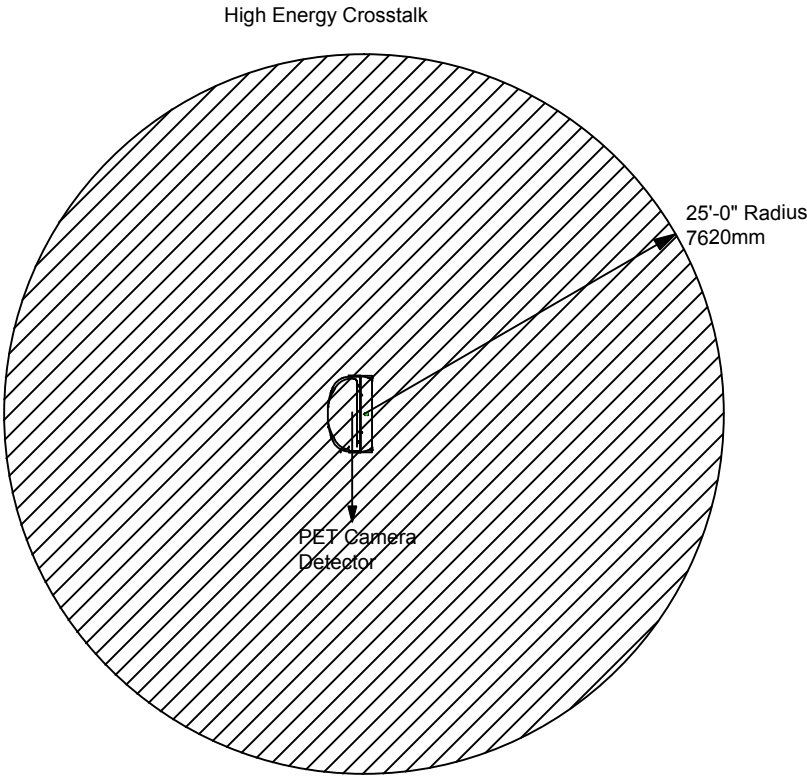
Notes:

1. No injected patient or hot source in the shaded area.

2. High energy radiation is mostly for PET Camera's and is > 360 keV.

Camera Room Layout - High Energy Crosstalk
BrightView XCT

(09.0)

Project
BrightView XCT
Standard Reference Drawing
Not Site Specific
-

Philips Contacts
Project Manager:
Contact Number:
Email:
Drawn By:

Project Details
Drawing Number
N-SRD080008
Date Drawn: 12/2/2010
Quote: None
Order: None

MP2

11.19.10

PHILIPS

Note:

Customers needs must be considered when placing the system in the room. Above is a list of distances to rear wall required for various patient lengths.

Distance to wall

End of Pallet → | Wall line
20"
(508mm)

Max	**Patient Height**
94.7"
(2406mm)	**7'-10 11/16"**
90"
(2406mm)	**7'-6"**
85"
(2159mm)	**7'-1"**
78.74"
(2000mm)	**6'-6 3/4"**
72"
(1829mm)	**6'-0"**
60"
(1524mm)	**5'-0"**

16"
(406mm)

11"
(279mm)

6"
(152mm)

78.74"
[2000mm]
Pallet length

Wall line
4"
(102mm)

Detector
Iso-ctr

Table
Pallet

20"
(508mm)
Finished Floor

89.00"
[2261mm]

Maximum Patient Length 7'-10 11/16" = 94.7" (2406mm) Feet First

Detector
Iso-ctr

Table
Pallet

4"
(102mm)

73.00"
[1854mm]

Maximum Patient Length 6'-6 3/4"= 78.74" (2000mm) Head First

BrightView XCT Patient Support to Rear Wall
Distance Detail
Not to scale

(09.0)

Project Details
Drawing Number
N-SRD080008
Date Drawn: 12/2/2010
Quote: None
Order: None

Philips Contacts
Project Manager:
Contact Number:
Email:

Drawn By:

Project
BrightView XCT
Standard Reference Drawing
Not Site Specific
-

MP3

11.19.10

# Philips Healthcare Remote Services Network (RSN)

Secure broadband connection required for Philips remote technical support, diagnostics, and applications assistance

Broadband Site-to-Site Connectivity (Preferred)
This connectivity method is designed for customers who prefer a connection from the RSN Data Center to the Health Care Facility (HCF) utilizing their existing VPN equipment.

Connectivity Details:
- A Site-to-Site connection from the RSN data center's Cisco router will be established to the HCF's VPN concentrator.
- The VPN Tunnel will be an IPSEC, 3DES encrypted Tunnel using IKE as standard, but   alternative standards are also available, such as AES, MD5, SHA, Security Association lifetime and Encryption Mode.
- Every system that we will be servicing remotely will have a static NAT IP that we configure on the RSN Data center side.
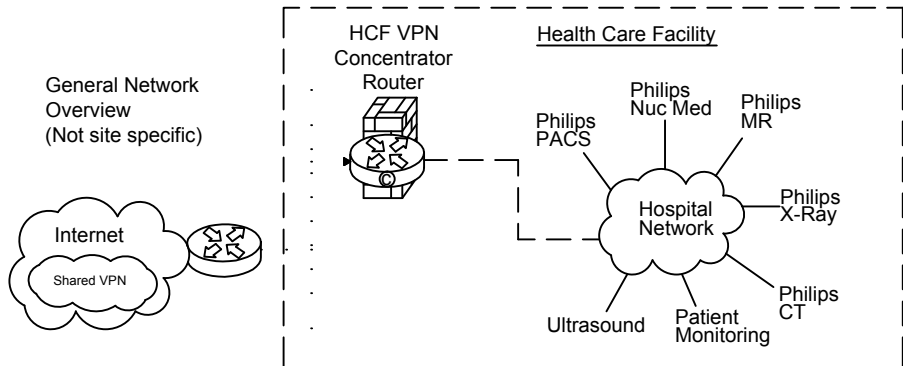
Action Required by Hospital:
- Review and approve connection details.
- Complete appropriate Site Checklist.
- Configure and allow Site-to-Site access prior to setting up connectivity depending on the   access criteria that the HCF decides to implement (ex: Source IP filtering, destination IP   filtering, NAT assignment, etc.).
- Route traffic from within the hospital network with destination addresses 192.68.48.0/22 to   the designed IP provided by Philips.

Broadband Router Installed at Health Care Facility
This connectivity method is designed for customers who have a dedicated high speed connection for Philips equipment.

Connectivity Details:
- An RSN Cisco 1711 or 1712 router will be preconfigured and installed at the HCF by Philips   in conjunction with the HCF IT representative.
- The VPN Tunnel will be an IPSEC, 3DES encrypted Tunnel using IKE and will be established from the RSN-DC and terminated at the RSN Router on-site.
- One to One NAT is used to limit access to Philips equipment only.
- Router Config and IP auditing is enabled for Customer IT to view via website 24/7.
- Dedicated DSL connections are also supported.

Option 1: Parallel to HCF Firewall Connectivity Method
This connectivity method is designed for customers who prefer a Philips RSN Router installed on site utilizing all the security features provided and managed by Philips.
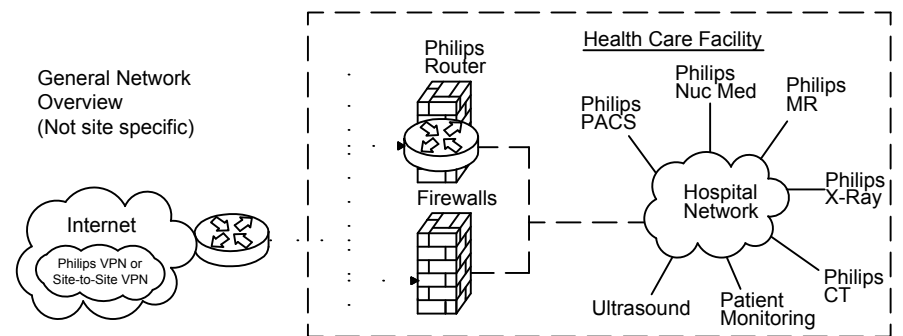
Action Required by Hospital:
- Assign a fixed public IP Address from the ISP to be configured on the Philips router. This is the DOTTED link on the picture connected to the firewall.
- Assign a Back end IP for the Philips router on the Hospital Network.
- Complete appropriate Site Checklist.
- Route traffic from within the hospital network with destination addresses 192.68.48.0/22 to internal Philips router Ethernet interface. This is the DASHED line connected to the firewall.

Option 2: Back End Connected to the HCF Firewall Connectivity Method
This connectivity method is designed for customers who prefer a Philips RSN Router installed on site by setting up an IP-Based policy allowing access thru existing HCF Firewall to Philips equipment.

Action Required by Hospital:
- Assign a fixed public IP Address from the ISP to be configured on the Philips router. This is the DOTTED link on the picture connected to the firewall.
- Assign a Back end IP for the Philips router on the Hospital Network.
- Complete appropriate Site Checklist.
- Route traffic from within the hospital network with destination addresses 192.68.48.0/22 to internal Philips router Ethernet interface. This is the DASHED line connected to the firewall.
- Configure and allow on the firewall on the DASHED line interface access between the IP address allocated by the hospital to the Philips internal Ethernet router interface and the target modality IP address.

Option 3: Router Installed Inside the HCF's DZM
This connectivity method is designed for customers who prefer the RSN Router installed inside and existing, or new DMZ, allowing access to Philips equipment.
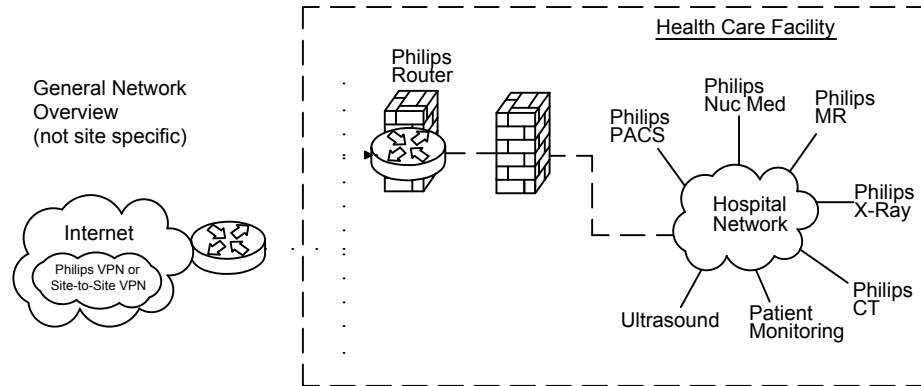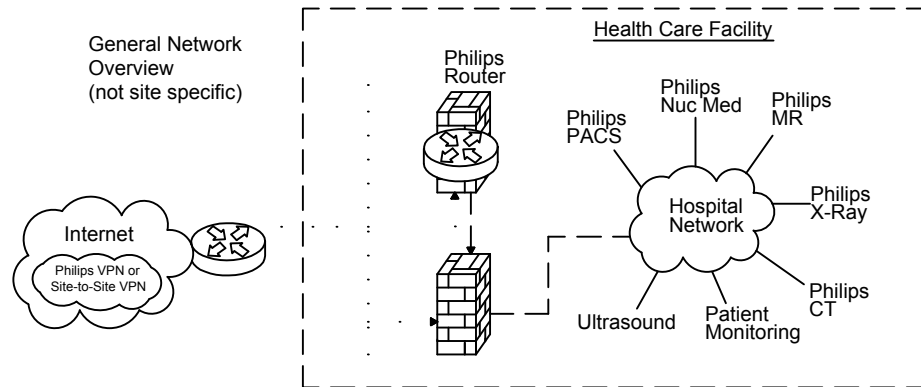

Action Required by Hospital:
- Assign a fixed public IP Address from the ISP to be configured on the Philips router. This is the DOTTED link on the picture connected to the firewall.
- Assign a Back end IP for the Philips router on the Hospital Network.
- Complete appropriate Site Checklist.
- Route traffic from within the hospital network with destination addresses 192.68.48.0/22 to internal Philips router Ethernet interface. This is the DASHED line connected to the firewall.
- Configure and allow on the firewall on the DASHED line interface IPSec protocol communication by opening protocol 500, 50, 51, 47 and port 23 + TACACS. Traffic should be between external IP Address located on the Philips router and the RSN Data center IP address 192.68.48/24 and IP address AOSN TACAS.
- Configure and allow on the firewall on the DASHED line interface access between the IP address allocated by the hospital to the Philips internal Ethernet router interface and the target modality IP address.

Philips Contacts
Project Manager:
Contact Number:
Email:
Drawn By:

Project
BrightView XCT
Standard Reference Drawing
Not Site Specific
-

Project Details
Drawing Number
N-SRD080008
Date Drawn: 12/2/2010
Quote: None
Order: None

N1

11.19.10

Instructions

This form is to be used by Project Manager, Contractor and Service Engineer.

Information is used to develop and determine site ready date.

Items listed are go/no go items for delivery unless noted as delay only items.

Items identified with *** as delayed items must be completed after hours or on weekend. These items cannot be accomplished while installation is in progress. Also, these items must be completed within two days of installation start or they may stop installation.

Site Readiness Checklist

Modality: _____

Order: _____

Site Name: _____

Location: _____

Contact Name: _____

Contact Phone Number: _____

☐ Customer site preparation verified in general against the Philips Site Preparation Support Drawings.

☐ Walls finished including painting.

☐ Doors installed.

☐ Floor leveled according to Philips drawings and specifications.

☐ Floors are tiled/covered finished. Flooring is covered with protective covering (scratch protection).

☐ Ceiling lights installed.

☐ Cable conduit and ductwork installed and clean. Position checked. Duct covers in place but not finally closed. Cable opening are clear, without sharp edges. Pull strings in conduit. Installation per Philips specifications.

☐ HVAC environmental equipment installed and working according to Philips specifications.

☐ Ceiling installation completed.

☐ Electrical preparation according to Philips specifications.

☐ All network cabling, drops installed according to Philips specifications (including hardcopy cameras).

☐ All pre-cabling identified on Philips drawings has been installed.

☐ Pre-move survey completed - Delivery route identified.

☐ Lead glass installed ***.

☐ X-ray warning lights installed ***.

☐ Room has been cleaned ***.

☐ Cabinets and casework installed ***.

☐ RSN Surveys completed and submitted.

☐ Philips RSN Champion contacted.

Approved for Delivery

_____

Project Manager   Date

_____

Service Engineer   Date

Modality Checklist

☐ Proper licenses for all applicable isotopes have been acquired by customer and verified by local Philips personnel. (see AN sheet).

☐ A hot lab area for all applicable isotopes has been identified and is fully operational.

☐ Any additional equipment required to handle applicable isotopes has been obtained by customer and is available on site prior to delivery of Philips equipment.

PHILIPS

Project
BrightView XCT
Standard Reference Drawing
Not Site Specific
-

Project Details
Drawing Number
N-SRD080008
Date Drawn: 12/2/2010
Quote: None
Order: None

CHK

11.19.10

THE INFORMATION IN THIS PACKAGE IS PROVIDED AS A CUSTOMER CONVENIENCE, AND IS NOT TO BE CONSTRUED AS ARCHITECTURAL DRAWINGS OR CONSTRUCTION DOCUMENTS. Philips assumes no liability nor offers any warranty for the fitness or adequacy of the premises or the utilities available at the premises in which the equipment is to be installed, used, or stored.

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED.

AECOM

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID: 6732-008

Alt ID:

Description: Cabinet, File, Lateral, 4-Drawer

Manufacturer: Herman Miller Healthcare   ((616) 654-7489)

Vendor: Herman Miller Healthcare   ((616) 654-7489)

Model: Tu V-Pull (36'W)

Mfr #: LV200.364SSSGKANO2R

Vendor #: LV200.364SSSGKANO2R

CAD ID: CFL0092

Item ID:

4-Drawer lateral file cabinet. Smooth-steel case and full-width recessed pulls. Includes 1" leveling glides and a positive interlock system that permits only 1 drawer or pullout shelf to open at a time. Drawers can be specified with side-to-side or front-to-back filing rails to accommodate letter, legal, and A4-size hanging files.

General Product Detail

Arch Sig: No		**Spatially Sig:** No	
Arch Code: 5 - Furniture		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Non-Medical	**Green:** No	

Physical Requirements

Width: 35.75 in (908 mm)	**Left:** N/A	
Depth: 19.50 in (495 mm)	**Right:** N/A	
Height: 51.50 in (1308 mm)	**Front:** N/A	
Max Weight: N/A	**Back:** N/A	
Mounting: Floor	**Top:** N/A	
	Bottom: N/A	

Electrical Requirements

Volts: N/A	**Watts:** N/A	
Hz: N/A	**Amps:** N/A	
Phase: N/A	**BTU/hr:** N/A	
KVA: N/A	**Ded. Circuit:** No	
Emer. Power: No	**Plug Type:** N/A	

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No	
Water - Hot: No	**Drain:** No	
Water - Treated: No	**Steam:** No	
Vent: No	**Vacuum - Dental:** No	
Tech Connect: No	**Vacuum - Medical:** No	

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	G197	Admin	Existing (Reuse)	Draft (Existing)	1	Per notes - (2) lateral files 4 dwr (New) 011915 addendum to 123114 meeting notes - c. Delete 6732-008 & h. Only one 6732-008, exisiting
Nuclear Medicine	B174	Admin/Control	Project	Draft (New)	1	Per notes - 1 4 dwr lateral file
Nuclear Medicine	G194	Library	Project	Draft (New)	1	per 123114 meeting notes - Add 7' tall bookshelves, similar to 6732-008
Nuclear Medicine	C169	NM Physician Office	Project	Draft (New)	3	Per notes - 4 Letter file = 4 dwr tall 5' (move existing up) per 123114 meeting minutes - delete 6732-008 from the middle of the room. qty changed to 3
Nuclear Medicine	B164	Nurse	Project	Draft (New)	1	
Nuclear Medicine	G197A	Office	Project	Draft (New)	1	Per note - (1) lateral 4 dwr (new)

Total: 8

V-Pull Freestanding Lateral File   LV200.
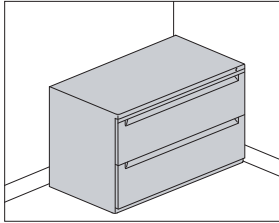
Product Information

Description

This lateral file has a smooth-steel case and full-width, recessed pulls. It includes 1″ leveling glides and a positive interlock system that permits only 1 drawer or pullout shelf to open at a time. Drawers can be specified with side-to-side or front-to-back filing rails to accommodate letter-, legal-, and A4-size hanging files. The pullout shelf includes 3 file dividers.

Actual file depth is $19^3/_8$″. Actual file width is $29^5/_8$″, $35^5/_8$″, or $41^5/_8$″. Interior height of the flipper door with pullout shelf is $10^1/_4$″. Raised-height configuration adds $^1/_2$″ to overall height to fill the space between the top of the file and the underside of a surface.

Notes

Base on 2 drawers, raised height option (1) aligns with base on Tu storage towers.

2- or 3-high files that are not ganged or anchored require counterweights (option CB). When two 42″-wide, 4-high files are ganged side by side, each file requires a counterweight.

Counterweight specified with file is permanently installed. To order removable counterweight, specify file with no counterweight (option NO), and order counterweight (LG909.) separately.

Order optional accessories separately:
• File drawer organizer (LG901)
• Movable divider (9M100) - For flipper door with pullout shelf only
For keyed-alike locks, order lock plugs separately. See Keyed-Alike Information in Appendices.

Dimensions

19 3/8″
27 1/4″   w
2 Drawers, Raised Height

19 3/8″
26 3/4″   w
2 Drawers

39 1/8″   w
3 Drawers

51 1/2″   w
4 Drawers

64 7/8″   w
1 Flipper Door and 4 Drawers
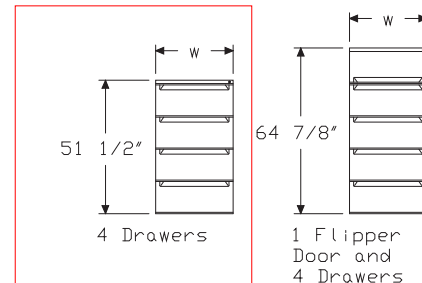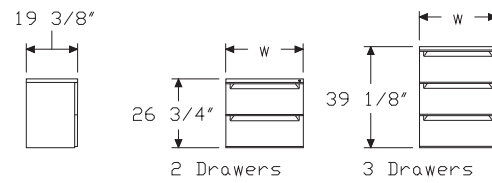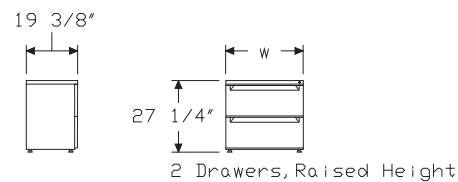
V-Pull Freestanding Lateral File

continued

Specification Information
Step 1.
LV200.

Step 2. Width	
30	30" wide
36	36" wide
42	42" wide

Step 3. Configuration	
1	2 drawers, raised height
2	2 drawers
3	3 drawers
4	4 drawers
5	1 flipper door with pullout shelf and 4 drawers

Prices for Steps 1-3.

		1	2	3	4	5
LV200.	**30**	$685	685	900	1138	1544
	36	$762	762	994	1253	1663
	42	$834	834	1086	1367	1823

Step 4. Paint/Steel Type		
SS	smooth paint on smooth steel	+$0
XS	textured paint on smooth steel	+$0

Step 5. Surface Finish

For smooth paint on smooth steel (SS)

8Q	folkstone grey	+$0
BU	black umber	+$0
HF	inner tone light	+$0
LT	light tone	+$0
LU	soft white	+$0
MT	medium tone	+$0
SG	slate grey	+$0
WL	sandstone	+$0
CN	metallic champagne	+$65
EH	metallic bronze	+$65
MS	metallic silver	+$65

Sand Texture Paint

For textured paint on smooth steel (XS)

7L	dune	+$0
7M	chai	+$0
7N	grass	+$0
7U	blue ridge	+$0
7V	loden	+$0
7W	napa	+$0
7Y	sedona	+$0
7Z	mink	+$0
8T	gull	+$0
8Y	moonbeam	+$0
B4	blue medium	+$0
ZK	cappuccino	+$0

Bright Sand Texture Paint

For textured paint on smooth steel (XS)

91	white	+$0
CL	cool grey neutral	+$0
G1	graphite	+$0
WN	warm grey neutral	+$0

Step 6. Lock		
KA	keyed alike	+$0
KC	keyed differently, chrome	+$0
KD	keyed differently, black	+$0

Step 7. Counterweight

		30	36	42
NO	no counterweight (must gang or anchor)	+$0	0	0
CB	counterweight (recommended)	+$50	95	95

Step 8. Drawer Interior

		1	2	3	4
2R	side-to-side filing rail	+$0	0	0	0
1R	front-to-back filing rail	+$35	35	50	65

For 1 flipper door with pullout shelf and 4 drawers (5)

4R	side-to-side filing rail and dividers in flipper	+$0
3R	front-to-back filing rail and dividers in flipper	+$80

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID: 6822-021
Alt ID:

Description: Printer, Laser, Multifunction

Manufacturer: Xerox Corp. ((203) 968-3000)   **Mfr #:** 3300MFP

Vendor: Xerox Corp. ((203) 968-3000)   **Vendor #:** 3300MFP

Model: Phaser 3300MFP   **CAD ID:** PRN0332

Multifunction printer. Copy, Email, LAN fax, Network scan, PC fax, Print, Walkup fax capabilities. 30 ppm print speed, two-sided output, automatic document feeder, 300 sheet standard paper capacity. Energy Star.   **Item ID:**

General Product Detail

Arch Sig: Yes		**Spatially Sig:** No	
Arch Code: 6 - IT/Computers		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Non-Medical	**Green:** Yes	

Physical Requirements

Width: 18.50 in (470 mm)	**Left:** N/A	
Depth: 17.25 in (438 mm)	**Right:** N/A	
Height: 18.00 in (457 mm)	**Front:** N/A	
Max Weight: 42 lbs (19.1 kg)	**Back:** N/A	
Mounting: Counter/Cart/Table/Pole	**Top:** N/A	
	Bottom: N/A	

Electrical Requirements

Volts: 120		**Watts:** 4	
Hz: 60		**Amps:** 478	
Phase: Single		**BTU/hr:** N/A	
KVA:		**Ded. Circuit:** No	
Emer. Power: No		**Plug Type:** Type B (NEMA 5-15)	

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No	
Water - Hot: No	**Drain:** No	
Water - Treated: No	**Steam:** No	
Vent: No	**Vacuum - Dental:** No	
Tech Connect: Yes	**Vacuum - Medical:** No	

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	G197B	Admin Office	Existing (Reuse)	Draft (Existing)	1	
Nuclear Medicine	B174	Admin/Control	Project	Draft (New)	1	per note - @ 3490-017 Per 123114 meeting notes - Move 6828-021 to Admin X100 (this is not a valid #). 010815 - correct number verified 6822-021 per sterling Hershey
Nuclear Medicine	G194	Library	Existing (Reuse)	Draft (Existing)	1	Per note - existing
Nuclear Medicine	C169	NM Physician Office	Project	Draft (New)	1	per notes - computer + printer Per 020415 meeting notes clarifications - Multifunction [6822-021] to have scan and print capabilities
Nuclear Medicine	B164	Nurse	Existing (Reuse)	Draft (Existing)	1	
Nuclear Medicine	G197A	Office	Project	Draft (New)	1	
				Total:	**6**	

Phaser® 3300MFP
Black-and-White Multifunction Printer

		Phaser 3300MFP
Speed		Up to 30 ppm (Letter) / 28 ppm (A4)
Duty Cycle		Up to 25,000 pages / month
Paper Handling Paper input	Standard	**Automatic Document Feeder:** 50 sheets; Custom Sizes: 5.6 x 5.8 in. to 8.5 x 14 in. / 142 x 148 mm to 216 x 356 mm
		Multipurpose Tray: 50 sheets; Custom sizes: 3 x 5 in. to 8.5 x 14 in. / 76 x 127 mm to 216 x 356 mm
		Main Tray: 250 sheets; Sizes: Letter, Legal, Folio, Oficio, A4, JIS B5, ISO B5, Executive, A5, A6
	Optional	**Additional Tray:** 250 sheets; Sizes: Letter, Legal, Folio, Oficio, A4, JIS B5, ISO B5, Executive, A5, A6
Paper output		150 sheets face down, 1 sheet face up
Automatic two-sided printing		Standard
Print First-page-out-time		As fast as 8.5 seconds
Print resolution		600 x 600 dpi (up to 1200 x 1200 enhanced image quality)
Memory (std / max)		96 MB (64 MB + 32 MB DIMM) / 320 MB maximum
Processor		300 MHz
Language support		PCL® 6 / 5e emulations, PostScript® 3™ compatibility
Connectivity		USB 2.0, 10/100Base-TX Ethernet
Print features		Watermarks, Toner save mode, N-up, Saved settings, Fit to page, Collation, Overlay, Reduce/enlarge, Poster, Scaling, Print from USB, Booklet printing
Copy First-page-out-time		As fast as 8.5 seconds
Copy resolution		Up to 600 x 600 dpi
Copy features		Reduce/enlarge, Two-sided (1:2 duplex copy), Background suppression, Collation, ID Card Copy, 2-up/4-up, Cloning, Poster
Fax		33.6 Kbps with MH/MR/MMR/JBIG/JPEG compression
Fax features*		Color fax send, Searchable address book, Fax reports, Forward to fax/email, PC and LAN Fax (send only), Secure fax receive, Last number redial, Distinctive ring, Journal, Junk fax barrier, up to 200 group dial locations, Broadcast fax (up to 249 locations), Delayed fax send, Memory receive, Auto file size reduction, 6 MB fax memory
Scan Scan destinations		Scan to Email (includes up to 200 local directory entries, 50 group email entries, authentication); Network Scan to applications/folders (Windows only); Scan to SMB and FTP; Scan to USB Memory Drive (File formats: BMP, JPG, Multipage PDF, Multipage TIFF); Direct Scan to Applications including OCR (software included)
Scan features		Up to 4800 x 4800 dpi (enhanced), File formats: BMP, JPG, Multipage PDF, Multipage TIFF; Scan to PC Desktop® Personal Edition (includes 1 seat of Nuance® PaperPort® SE 11.0, OmniPage® 4.0 SE, Image Retriever), Color Scanning, FTP, SMB, SMTP and HTTP(S), Scan Build Job
Security		802.1x, SNMPv3, HTTPS, Secure Fax, SSL, IP Filtering, Scan to Email with user authentication
Warranty		One-year depot warranty, Xerox Total Satisfaction Guarantee

*Analog phone line required

Device Management
CentreWare® Internet Services, CentreWare Web, CentreWare for HP® OpenView, Rendezvous (Bonjour)

Print Drivers
Windows® XP/Vista/2003 Server, Mac OS® version 10.3-10.5, Various Linux® OS including SUSE™ 8.2-9.2, Red Hat® 8-9, Fedora™ Core 1-4, Mandrake 9.2-10.1, Xerox Mobile Express Driver, Xerox Global Print Driver

Media Handling
Multipurpose Tray: 16 – 43 lb. bond / 60 – 163 gsm; Media types: Plain paper, envelopes, transparencies, labels, cardstock, postcards, cotton, pre-printed, recycled, bond, archive; Main Tray and Additional Tray (optional): 16 – 24 lb. bond / 60 – 90 gsm; Media types: Plain paper; ADF: Weight: 12.5 to 28 lb / 50 to 120 gsm Media types: Plain paper

Operating Environment
Operating: 50° to 90° F / 10° to 32° C; Relative humidity: 20 to 80 %; Sound pressure levels: Printing: 55 dB(A), Standby: 39 dB(A); Warm-up time (from sleep mode): Less than 20 seconds

Electrical
Power: 110–127 VAC, 50/60 Hz or 220–240 VAC, 50/60 Hz; Power consumption: Standby: 79 W; Printing: 478 W; Power save: 10 W ENERGY STAR® qualified

Dimensions (WxDxH)
18.3 x 17.1 x 18 in. / 466 x 435 x 458 mm; Weight: 41.6 lbs / 18.9 kg; Package Dimensions (WxDxH): 23.2 x 22 x 25.2 in. / 590 x 559 x 640 mm; Optional 250-sheet Tray 2: 18.3 x 17.1 x 3.3 in. /466 x 434 x 85 mm; Weight: 6.38 lbs / 3.1 kg

Certifications
Listed UL 60950, CE Mark applicable to Directives 2006/95/EC, 2004/108/EC and 99/5/EC, FCC Part 15 Class B, FCC Part 68

What Comes In The Box
- Phaser 3300MFP Multifunction Printer
- Print Cartridge (4,000 print capacity[1])
- Software and Documentation CDs (with Print Drivers, Scanning Software, User Manual, Quick Installation Guide and Warranty Statement)
- Power cord, USB cable, fax cord

Supplies
Standard-Capacity Print Cartridge[1]:

4,000 std. pages	106R01411

High-Capacity Print Cartridge[1]:

8,000 std. pages	106R01412

[1] Average standard pages. Declared Yield in accordance with ISO/IEC 19752. Yield will vary based on image, area coverage and print mode.

Options
250-sheet Tray	097N01693
256 MB Phaser Memory	097S03761

Supplies Recycling Program
Consumables for the Phaser 3300MFP are part of the Xerox Green World Alliance Supplies Recycling Program. For more information, please visit the Green World Alliance website at **www.xerox.com/gwa**

For more information, call **1-877-362-6567** or visit us at **www.xerox.com/office**

Phaser® 3300MFP multifunction laser printer

Fast and feature-rich. With high-speed print and copy, and full-featured scan and fax, this powerful multifunction printer delivers document handling that gives busy work teams a competitive edge. Value-priced and network-ready, the Phaser 3300MFP is the robust, reliable choice for your business.

High-end performance

The Phaser 3300MFP is built for speed, with the printing and scanning performance of larger multifunction devices.

30 ppm

- **Copying and printing that moves at the speed of business** (30 ppm with the first page out as fast as 8.5 seconds).

- **Get more printing done** with a 300-sheet capacity, expandable to 550 sheets, and the ability to handle special custom-sized media such as postcards and envelopes.

- **1200 image quality printing** gives your documents a high-quality, professional impact.

- **Print any document with confidence,** thanks to full PCL and PostScript 3 support and automatic tray switching that switches to the next tray when the default tray is empty.

- **Precision engineering** ensures that the Phaser 3300MFP is easy to set up, use and maintain.

- **Digital workflows** let you route electronic and scanned-in paper documents to their correct locations on the network.

Rich feature set at a value price

The Phaser 3300MFP is loaded with features that help you reduce operating costs and optimize resource usage.

- **One device** gives you the right combination of office tools—print, copy, scan and fax—at one great price.

- **Powerful fax/scan tools** bring fax and paper documents easily to the network, for distribution via email, fax or through your network's LDAP address book.

- **Network ready** with built-in Ethernet connectivity, remote management tools and network security.

- **Save money on resources:** Toner-saver and power-saver modes and features like N-up printing and ID Card Copy make it easy to reduce toner, paper and energy costs.

- **Automatic two-sided printing** improves productivity and reduces paper use.

- **Scan to/print from a USB memory drive** from the front control panel in multiple file formats. No computer needed!

- **All the features of top fax machines** including speed dial, Secure Fax, color send and LAN fax.

Manage paper to digital quickly and easily

Fast, easy scanning

With the power of scanning built-in, the Phaser 3300MFP makes it easy to create, organize and distribute business-critical digital files.

- Scan color documents quickly and accurately at up to 24-bit 4800 x 4800 dpi resolution.

- Send scanned documents directly to the inbox from the front panel using scan to email.

- No-fuss network scanning lets you input and store documents to the network.

- Character recognition software turns hard copies into editable electronic documents.

Powerful faxing

The Phaser 3300MFP easily handles critical fax jobs.

- Forward an incoming fax to another fax number or an email address.

- Powerful 24-bit color faxing.

- Maintain your privacy with Secure Fax receive and a junk fax barrier.

- Store up to 240 fax numbers in speed dial.

- 15 one-touch speed buttons on front panel.

- 200 group-dial locations broadcast fax to up to 249 numbers.

Phaser® 3300MFP Quick Facts

- Up to 30 ppm print and copy
- 600 x 600 dpi (Up to 1200 x 1200 enhanced image quality)
- 300 MHz processor
- 96 MB (64 MB + 32 MB DIMM) (320 MB maximum)
- 300-sheet capacity, expandable to 550 sheets
- 25,000 pages/month duty cycle

Print, Copy, Scan, Fax

8.5 x 14 in.

30 ppm

WxDxH:
18.3 x 17.1 x 18 in.
466 x 435.4 x 458 mm

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

AECOM

Atta ID: 7121-003

Description: Dispenser, Water, Filtered

Manufacturer: Culligan International Company   ((877) 386-0823)

Vendor: Culligan International Company   ((877) 386-0823)

Model: Preferred Series

Alt ID:

Mfr #:

Vendor #:

CAD ID: DWT0007

Item ID:

Tankless Water Cooler/Dispenser. Connects directly to a water line and uses reverse osmosis filtration technology.

General Product Detail

Arch Sig: Yes		**Spatially Sig:** No	
Arch Code: 1 - Fixed		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/C	**Type:** Non-Medical	**Green:** No	

Physical Requirements

Width: 13.00 in (330 mm)	**Left:** N/A
Depth: 15.00 in (381 mm)	**Right:** N/A
Height: 44.00 in (1118 mm)	**Front:** N/A
Max Weight: 52 lbs (23.6 kg)	**Back:** N/A
Mounting: Floor	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: 120		**Watts:** 564	
Hz: 60		**Amps:** 4.7	
Phase: Single		**BTU/hr:** N/A	
KVA:		**Ded. Circuit:** No	
Emer. Power: No		**Plug Type:** Type B (NEMA 5-15)	

Utility and Technology Requirements

Water - Cold: Yes		**Gasses:** No	
Water - Hot: No		**Drain:** No	
Water - Treated: No		**Steam:** No	
Vent: No		**Vacuum - Dental:** No	
Tech Connect: No		**Vacuum - Medical:** No	

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	C168	Tech Office	Existing (Reuse)	Draft (Existing)	1	Added per email from Sarah H
				Total:	**1**	

Never Lift A Bottle Again!

Specifications

Height:
44" (112 cm)

Width:
13" (33 cm)

Depth:
15" (38 cm)

Weight:
52 lbs. (23.5 kg)

Water Connection:
1/4" tubing

Electrical Supply:
120V/60HZ

Amps:
4.7 amps

Cold Tank:
0.92 Gal (3.5 L)

Hot Tank:
0.42 Gal (1.6 L)

System requires a connection to a cold water supply.

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system

All figures are approximations and are subject to change.

Culligan's water treatment system is an advanced, affordable alternative for any home or office. The modern cabinet design compliments any décor and the easy to see operating lights and built-in drip tray drain help to reduce maintenance requirements. The advanced Culligan® water filtration product provides you with a near-endless supply of crystal-clear, great tasting water at the touch of a button.

Culligan's Preferred Series

Have Culligan® professionally install your water treatment system with our advanced carbon filtration.

Culligan's Good Water Machine™

Or for extra protection, have Culligan® professionally install your water treatment system with our state-of-the-art reverse osmosis technology.

"Hey Culligan Man!"®

Culligan
Trust the Water Experts®

www.culligan.com

100% SATISFACTION · 30-DAY GUARANTEE · 100% Culligan

INDEPENDENTLY CERTIFIED · NSF **

For Details Visit
www.culligan.com

Refer to individual filter's performance data sheet for specific contaminant reduction capabilities. Contaminants not necessarily in your water.
* Dealer participation may vary.
** NSF certification applies to the Preferred Series Filters and Culligan's Good Water Machine only.
Culligan, Hey Culligan Man, Culligan Man, Good Water Machine and Trust The Water Experts are registered trademarks of Culligan International Company.

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Description: Locker, Allowance

Manufacturer: Spacesaver Corporation   ((800) 492-3434)

Vendor: Spacesaver Corporation   ((800) 492-3434)

Model: FreeStyle

Budget Allowance for personal storage lockers.

Atta ID: 7129-002
Alt ID:
Mfr #: TBD
Vendor #: TBD
CAD ID: LCK0032
Item ID:

General Product Detail

Arch Sig: No		**Spatially Sig:** No	
Arch Code: 5 - Furniture		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: C/C	**Type:** Non-Medical	**Green:** No	

Physical Requirements

Width: N/A	**Left:** N/A
Depth: N/A	**Right:** N/A
Height: N/A	**Front:** N/A
Max Weight: N/A	**Back:** N/A
Mounting: N/A	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	A156A	Thyroid Uptake	Project	Draft (New)	5	Per 020415 meeting notes - add staff lockers to north wall. VA to confirm type and size. VA confirmation of type and size - (5) new lockers: 18"w x 78"h x 22"d Per VA document Meeting Minutes 100% CD Design Submission Reveiw Meeting dated 09-30-15, Item 28 - AS706...Add locker equipment number.... Number provided to architeture to add to equipment plan
				Total:	**5**	

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID: 7169-035

Description: Monitor, Computer, LCD, 20 - 24 inch

Alt ID:

Manufacturer: Hewlett-Packard   (650-857-1501)

Mfr #: F0W81AA#ABA

Vendor: Hewlett-Packard   (650-857-1501)

Vendor #: F0W81AA#ABA

Model: HP EliteDisplay E241i LED 24'

CAD ID: MNT0368

24" LED backlit monitor. Features 178-degree viewing angle, Customizable tilt, height adjustment, swivel, and pivot settings. 1920 x 1200 resolution. Contrast ratio Static: 1000:1; Dynamic: 5,000,000:1. 250 cd/m2. 3USB 2.0 (one upstream, two downstream), VGA, DVI-D, DisplayPort 1.2 (HDCP support on DVI and DisplayPort). Energy Star qualified.

Item ID:

General Product Detail

Arch Sig: No		**Spatially Sig:** No	
Arch Code: 6 - IT/Computers		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Non-Medical	**Green:** Yes	

Physical Requirements

Width: 22.00 in (559 mm)	**Left:** N/A	
Depth: 11.00 in (279 mm)	**Right:** N/A	
Height: 20.50 in (521 mm)	**Front:** N/A	
Max Weight: 15 lbs (6.8 kg)	**Back:** N/A	
Mounting: Counter/Cart/Table/Pole	**Top:** N/A	
	Bottom: N/A	

Electrical Requirements

Volts: 120	**Watts:** 35	
Hz: 60	**Amps:** <1	
Phase: Single	**BTU/hr:** N/A	
KVA:	**Ded. Circuit:** No	
Emer. Power: No	**Plug Type:** Type B (NEMA 5-15)	

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No	
Water - Hot: No	**Drain:** No	
Water - Treated: No	**Steam:** No	
Vent: No	**Vacuum - Dental:** No	
Tech Connect: No	**Vacuum - Medical:** No	

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Dimensions & weight include stand.

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	G197	Admin	Existing (Reuse)	Draft (Existing)	2	per 123114 meeting notes - the two monitors are existing
				Total:	**2**	

HP EliteDisplay E241i 24-inch IPS LED Backlit Monitor

An expansive screen, customizable comfort, and wide-angle IPS.

IPS goes mainstream with the HP EliteDisplay E241i 24-inch IPS LED Backlit Monitor, a business-class combination of a large screen, extra-wide viewing angles, and extraordinary comfort.

HP EliteDisplay E241i 24-inch IPS LED Backlit Monitor

Now see everything

- Get great 178-degree viewing angles and stunning color integrity from In-Plane Switching (IPS) technology that lets you share your screen with everyone in the room.

Power through your day in comfort

- Customizable tilt, height adjustment, swivel, and pivot settings to help you find your sweet spot. The display also meets TCO Certified Edge requirements for innovative products at the forefront of environmental and ergonomic stand design.

Designed with the environment in mind

- Lower your costs with an intelligent, energy-efficient design that is ENERGY STAR® and TCO qualified and EPEAT® Gold registered.[1] The display also includes mercury-free display backlights, a low halogen design,[2] and arsenic-free display glass.

Enhance your view and get connected

- Crisp, clear content on this 24-inch diagonal, 16:10 aspect ratio screen from the high 5M: 1 dynamic contrast ratio.[3] Connect with VGA, DVI, and DisplayPort inputs and integrated two-port USB hub.

See more, do more, and be more comfortable

- Create a whole world view with a monitor for every task. With multiple monitors,[4] you can design a workspace that puts everything you need front and center on the desk.

Your monitor's new best friend

- Personalize your screen with HP Display Assistant software and view open applications on your connected displays. Deter theft with a user-designated PIN that deactivates the monitor if disconnected.

Global reassurance

- Rest assured your IT investment is supported by a three-year standard limited warranty. To extend your protection beyond the standard warranties, select optional HP Care Pack Services.[5]

HP EliteDisplay E241i 24-inch IPS LED Backlit Monitor

Part number	F0W81AA
Panel type	IPS panel with LED backlighting
Viewable image area	61 cm (24 in) widescreen, diagonally measured
Viewing angle	Horizontal: 178 degrees; Vertical: 178 degrees
Brightness[3]	250 cd/m^2
Contrast ratio[3]	Static: 1000:1; Dynamic: 5,000,000:1
Response rate[3]	8 ms (gray to gray)
Frequency[3]	Horizontal: 31 KHz-80 KHz; Vertical: 50 Hz-60 Hz
Aspect ratio	16:10
Native resolution	1920 x 1200 @ 60 Hz
Resolutions supported	640 x 480 @ 60Hz, 800 x 600 @ 60Hz, 1024 x 768 @ 60Hz, 1280 x 720 @ 60Hz, 1280 x 800 @ 60Hz ,1280 x 1024 @ 60Hz, 1440 x 900 @ 60Hz, 1600 x 900 @ 60Hz, 1600 x 1200 @ 60Hz , 1680 x 1050 @ 60Hz, 1920 x 1080 @ 60Hz, 1920 x 1200 @ 60 Hz
Input signal	VGA, DVI-D, DisplayPort 1.2 (HDCP support on DVI and DisplayPort)
USB	(3) USB 2.0 (one upstream, two downstream)
User controls	Menu, Minus ("-"), Plus ("+") /Input Control, OK/Auto, Power
Power consumption	Typical: 35 W; Maximum: 40 W; Power Saving: < 0.5 W standby; <0.5 W off
Dimensions (w x d x h)	Unpacked with stand: 55.6 x 27.62 x 51.65 cm (21.89 x 10.9 x 20.34 in)
	Head only: 55.6 x 5.5 x 36.26 cm (21.89 x 2.17 x 17.28 in)
Weight	Unpacked with stand: 6.58 kg (14.5 lb); Head only: 4.11 kg (9.4 lb); Packaged: 7.76 kg (17.09 lb)
Stand features	Detachable stand Height adjustable: 150 mm (5.9 in) Tilt: +15 to +70° Swivel: -180° to + 180° Pivot rotation: 90° to portrait
Environmental	Operating: 5° to 35° C (41° to 95° F); Non-operating: -20° to 60° C (-4° to 140° F)
Accessories[6] (sold separately)	HP LCD Monitor Quick Release[7] - An easy-to-use, VESA-compliant, LCD monitor mounting solution that allows you to quickly and securely attach an LCD monitor to a variety of stands, brackets, arms or wall mounts. For more information, refer to this product's QuickSpecs document. Part number EM870AA. HP Single Monitor Arm - The flexible design of the HP Single Monitor Arm provides a seemingly endless range of display adjustments with an amazing 13 inches of lift, 50 degrees of tilt, and 360 degrees of pan and rotation – all at your fingertips -- helping you stay comfortable and productive throughout the day. Part number BT861AA. HP Integrated Work Center Stand for Small Form Factors v3 - Maximize your available work space with the stylish and innovative HP Integrated Work Center for Small Form Factors v3 (HP IWC SFF v3), designed to match the newest HP PC designs. Create a customized "all-in-one" solution by combining an HP Small Form Factor (SFF) Business Desktop PC or Workstation with an LED monitor up to 24 diagonal inches.[8] Part number F2P06AA. HP Integrated Work Center Stand - USDT / Thin Clients - The HP Integrated Work Center Stand is designed to help maximize the use of limited desk space without compromising performance or productivity by accommodating an HP Ultra-slim Desktop PC or an HP Thin Client, and most HP 17 to 24-inch1 diagonal LCD monitors, with VESA standard mounting brackets.[9] Part numbers E8H16AA/AT (black and meteorite), LH526AA/AT (black and silver). HP Adjustable Dual Display Stand - Premium space-saving dual screen solution provides access to more monitor real estate and makes it possible to manage multiple applications simultaneously. Weight adjustable for dual monitors from 17-24". Rotate displays into portrait/landscape positions. Part number AW664AA. HP Business PC Security Lock Kit - Attaches to the rear of the PC with a six-foot steel cable that can be used to secure a PC or peripherals such as mice, keyboards, monitors or USB security devices to protect them against unauthorized removal by physically connecting the system to an anchor point. Part number PV606AA.
Certification and compliance	EPEAT® Gold (select regions)[1], ENERGY STAR® qualified, TUV-GS, TUV-Ergo, UL, C-tick, VCCI, E-Standby, NOM/PSB/ICE, China Energy Label (CEL) Grade 1, TCO Displays, TCO Certified Edge, SmartWay - NA only
Limited warranty	Protected by HP, including a 3 year standard limited warranty. Optional HP Care Pack Services are extended service contracts that extend your protection beyond the standard warranties.[5]

Please see the product QuickSpecs document for additional detailed specifications and information. See www.hp.com/go/businessmonitors for more information about HP Business Monitors.

1. EPEAT® Gold registered in the U.S. See www.epeat.net for registration status by country.
2. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
3. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
4. Each monitor sold separately.
5. HP Care Pack Services are sold separately. Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Service starts from date of hardware purchase. Restrictions and limitations apply. See www.hp.com/go/cpc for details.
6. Accessories not included, and sold separately.
7. The HP Quick Release has been designed to support a maximum of up to 24 lbs (10.9 kg) for all devices mounted. Because mounting surfaces vary widely and the final mounting method and configuration may vary, mounting fasteners are not supplied (other than the VESA-compliant screws). HP recommends that you consult with a qualified engineering, architectural or construction professional to determine the appropriate type and quantity of mounting fasteners required for your application and to ensure that your mounting solution is properly installed to support applied loads.
8. 17 to 24-inch diagonal monitors need to meet supported weight limits of 6 to 12.1 lbs. (2.7to 5.5 kg).
9. The Integrated Work Center Stand has been designed to support 17 to 24-inch diagonal HP LCD monitors from 2.3 kg to 5.2 kg (5.07 lbs to 11.24 lbs).

Learn more at
www.hp.com/go/businessmonitors

Sign up for updates
hp.com/go/getupdated

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Description: Chair, Interiors, Allowance
Manufacturer: Unspecified
Vendor: Unspecified
Model: Unspecified

General Product Detail

Arch Sig: No		**Spatially Sig:** No	
Arch Code: 5 - Furniture		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Non-Medical	**Green:** No	

Physical Requirements

Width: N/A	**Left:** N/A
Depth: N/A	**Right:** N/A
Height: N/A	**Front:** N/A
Max Weight: N/A	**Back:** N/A
Mounting: N/A	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: N	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	C168	Tech Office	Existing (Reuse)	Draft (Existing)	4	Added per email from Sarah H - existing table (3' x 4"0 and (4) chairs
				Total:	**4**	

AECOM

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID: 7433-003

Alt ID:
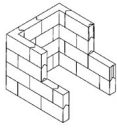
Description: Shield, Lead, Brick

Manufacturer: Biodex Medical Systems, Inc.   ((800) 224-6339)

Mfr #: 042-434

Vendor: Biodex Medical Systems, Inc.   ((800) 224-6339)

Vendor #: 042-434

Model: 042-434 Lead Brick Cave (3-wall. 2'Pb)

CAD ID: SHD0079

Lead Brick Cave. 3-wall, 2" lead. Fits Biodex 042-433 L-Block Shield. Internal dimension: 14" w x 20.5" depth x 16" h. Paint finish.

Item ID:

General Product Detail

Arch Sig: No		**Spatially Sig:** Yes	
Arch Code: 3 - Movable, Non-Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Medical	**Green:** No	

Physical Requirements

Width: 23.50 in (597 mm)	**Left:** N/A
Depth: 17.00 in (432 mm)	**Right:** N/A
Height: 16.00 in (406 mm)	**Front:** N/A
Max Weight: 597 lbs (270.8 kg)	**Back:** N/A
Mounting: Counter/Cart/Table/Pole	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: Yes	**Pre-approval:**

Product and Project Item Notes

Specification:
Internal dimension: 14" w x 20.5" depth x 16" h
Outer dimension = ID + 3"
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B165	Hot Lab	Project	Draft (New)	1	Per 020415 meeting notes clarifications - 7433-003 mounts on 3490-026
					Total: 1	

DESIGN YOUR OWN ENCLOSURE OR SELECT FROM THESE POPULAR 3-WALLED CAVES:
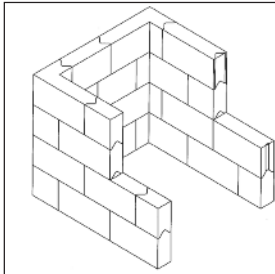
DURABLE PAINT FINISH

042-434 Interlocking Lead Brick Cave, 2" lead (fits L-Block Shield 042-433)

042-434 Lead Brick Cave, 3-wall, 2" lead
Fits 042-433 L-Block Shield
I.D.: 14" w x 20.5" depth x 16" h
(35 x 52.1 x 40.6 cm)
Weight: 597 lb (271 kg)

Related:
042-435 Lead Brick Cave Cover
Fits 042-434 L-Block Shield
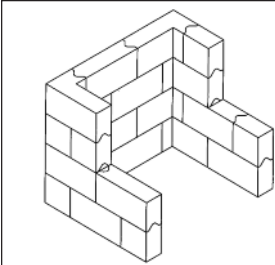
DURABLE PAINT FINISH

042-417 Interlocking Lead Brick Cave, 2.4" lead (fits L-Block Shield 042-413)

042-417 Lead Brick Cave, 3-wall, 2.4" lead
Fits 042-413 L-Block Shield
I.D.: 15.3" w x 13.6" depth x 16" h
(38.9 x 34.5 x 40.6 cm)
Weight: 611 lb (278 kg)
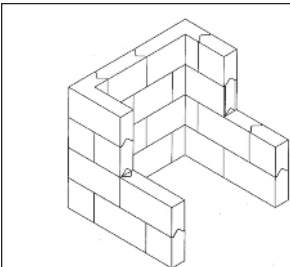
DURABLE PAINT FINISH

042-425 Interlocking Lead Brick Cave, 2" lead (fits L-Block Shields 042-428 and 042-419)

042-425 Lead Brick Cave, 3-wall, 2" lead
Fits 042-428 and 042-419 L-Block Shields
I.D.: 14" w x 15" depth x 16" h
(35 x 38.1 x 40.6 cm)
Weight: 492 lb (223 kg)

STEEL TABLE

- *Strong and sturdy*
- *Ideal for L-Block Shields and Lead Brick Caves*
- *Use in PET, nuclear medicine or radiation therapy departments*
- *Upper and lower shelf to accommodate small and large items, including PET shipping containers*

Sturdy as they come, this steel table can be used for just about any application requiring a strong, level platform. Ideal for holding heavy L-Block shields and caves, the surface is powder coated and the front legs feature adjustable levelers. Use the middle shelf to hold small items and the bottom shelf to support shipping containers or other large objects.

SPECIFICATIONS:
Dimensions: 36.75" w x 24" depth x 36" h (93.5 x 61 x 91.5 cm)
Front legs incorporate adjustable levelers
Finish: Powder coat
Weight Capacity: 1550 lb (730 kg)
Weight: 200 lb (90.9 kg)
Shipping Weight: 254 lb (116 kg)

042-407 Table, Steel

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Description: Cabinet, File, Pedestal

Manufacturer: Herman Miller Healthcare   ((616) 654-7489)

Vendor: Herman Miller Healthcare   ((616) 654-7489)

Model: Meridian Std-Pull Mobile BBF (18'Wx22'D)

Mobile pedestal file cabinet with 2 box drawers and one standard file drawer. 18" wide x 22" deep. Standard pulls. Twelve year parts and labor warranty.

Atta ID: 7599-009
Alt ID:
Mfr #: M16-1822-BBF
Vendor #: M16-1822-BBF
CAD ID: CFL0088
Item ID:

General Product Detail

Arch Sig: No		**Spatially Sig:** No	
Arch Code: 5 - Furniture		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Non-Medical	**Green:** Yes	

Physical Requirements

Width: 18.00 in (457 mm)	**Left:** N/A
Depth: 22.00 in (559 mm)	**Right:** N/A
Height: 26.00 in (660 mm)	**Front:** N/A
Max Weight: N/A	**Back:** N/A
Mounting: Floor-Mobile	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B174	Admin/Control	Project	Draft (New)	1	per notes - 1 ped. - 2 dwr + file
				Total:	1	

Standard-Pull Mobile Pedestal M16-1
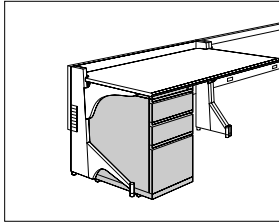
Product Information

Description

This 15″- or 18″-wide mobile pedestal has standard pulls and smooth or textured steel. It has no top or a metal, laminate, or veneer top. The pedestal has a 2$^1/_2$″-high base with casters and counterweights. Actual pedestal depths are 17$^7/_8$″, 21$^7/_8$″, or 27$^7/_8$″. The pedestal is available in a variety of drawer configurations. File drawers include a file compressor; box drawers include an adjustable drawer divider. The pedestal with squared-edge metal top is available with a hand grip; the 22″- and 28″-deep pedestals with squared-edge metal tops are available with transit handles.

Notes

Order optional accessories for 15″-wide pedestal separately:
• Drawer divider (73-1567-D)
• File drawer organizer (73-9874-FDO)
• File drawer organizer (LG901)
• Pencil tray (73-1516-PT)
• Stationery tray (73-7082-SST)

Order optional accessories for 18″-wide pedestal separately:
• Drawer divider (73-1867-D)
• File drawer organizer (LG901)
• Pencil tray (73-1816-PT)
• Stationery tray (73-7082-SST-SP)

No lock option (NL) can only be specified on pedestals with no top option (NT), laminate top options (TL), or veneer top option (TV1). For keyed-alike locks, order lock plugs separately. See Keyed-Alike Information in Appendices.

Dimensions
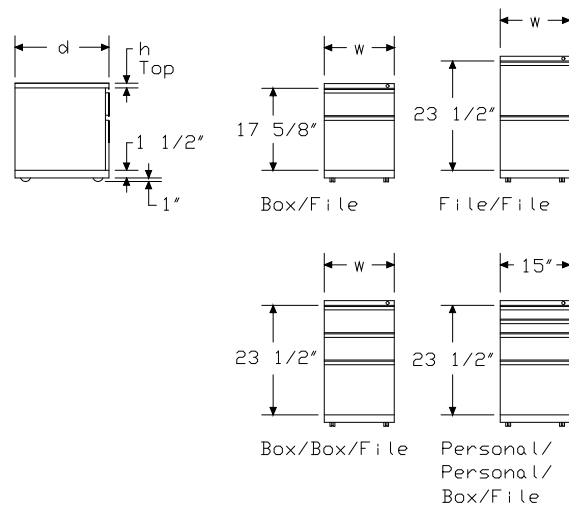
Standard-Pull Mobile Pedestal

continued

Specification Information

Step 1.

M16-

Step 2. Width

15	15″ wide
18	18″ wide

Step 3. Depth

18-	18″ deep
22-	22″ deep
28-	28″ deep

Step 4. Configuration

For 15" wide (15)

BF	box/file
FF	file/file
BBF	box/box/file
PPBF	personal/personal/box/file
BBB	box/box/box
BBBB	box/box/box/box

For 18" wide (18)

BF	box/file
FF	file/file
BBF	box/box/file
BBB	box/box/box
BBBB	box/box/box/box

Prices for Steps 1-4.

		BF	FF	BBF	PPBF	BBB	BBBB
M16-15	**18-**	$632	725	751	821	737	859
	22-	$648	745	773	844	755	879
	28-	$672	779	798	871	778	905
M16-18	**18-**	$646	747	778	—	754	887
	22-	$662	774	800	—	770	907
	28-	$684	798	823	—	793	932

Step 5. Paint/Steel Type

SS	smooth paint on smooth steel	+$0
TS	smooth paint on textured steel	+$0
XS	textured paint on smooth steel	+$0

Step 6. Surface Finish

For smooth paint on smooth steel (SS) or smooth paint on textured steel (TS)

Nonmetallic Paint	+$0
Metallic Paint	+$40

Sand Texture Paint
For textured paint on smooth steel (XS)

7L	dune	+$0
7M	chai	+$0
7N	grass	+$0
7U	blue ridge	+$0
7V	loden	+$0
7W	napa	+$0
7Y	sedona	+$0
7Z	mink	+$0
8T	gull	+$0
8Y	moonbeam	+$0
B4	blue medium	+$0
ZK	cappuccino	+$0

Bright Sand Texture Paint
For textured paint on smooth steel (XS)

91	white	+$0
CL	cool grey neutral	+$0
G1	graphite	+$0
WN	warm grey neutral	+$0

Step 7. Top

NT	no top	+$0
T1	1″-high painted metal top with squared edge	+$0
T2	$1^{1}/_{4}$″-high painted metal top with squared edge	+$0
T3	$1^{1}/_{4}$″-high painted metal top with radius edge	+$48
TL	$1^{1}/_{4}$″-high laminate top with vinyl edge	+$63
TR	$1^{1}/_{4}$″-high recut veneer top ⒶA	+$112
J3	$1^{1}/_{4}$″-high cathedral recut veneer top A	+$127
TF	$1^{1}/_{4}$″-high wood veneer top A	+$136
TV1	$1^{1}/_{8}$″-high wood veneer top and wood composite edge with oversail front A	+$232

Step 8. Lock

For no top (NT), $1^{1}/_{4}$″-high laminate top with vinyl edge (TL), or $1^{1}/_{8}$″-high wood veneer top and wood composite edge with oversail front (TV1)

NL	no lock	-$30

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Description: Shield, Lead, Well Chamber

Manufacturer: Capintec, Inc.   ((201) 825-9500)

Vendor: Capintec, Inc.   ((201) 825-9500)

Model: 5420-2141 Well Auxiliary Shield

Well Auxiliary shield for CAPRAC-t Wipe Test/Well Counter. 1.5 inch thickness. Sits on its own supporting base and fits around the well chamber.

Atta ID: 7647-002

Alt ID:

Mfr #: 5420-2141

Vendor #: 5420-2141

CAD ID: SHD0135

Item ID:

General Product Detail

Arch Sig:	No	**Spatially Sig:**	No
Arch Code:	3 - Movable, Non-Elect	**ADA:**	No
Custom Code:	Unassigned	**Antimicrobial:**	No
Furnish Install: O/O	**Type:** Medical	**Green:**	No

Physical Requirements

Width: 7.50 in (191 mm)		**Left:** N/A
Depth: 6.75 in (171 mm)		**Right:** N/A
Height: 15.75 in (400 mm)		**Front:** N/A
Max Weight: 90 lbs (40.8 kg)		**Back:** N/A
Mounting: Counter/Cart/Table/Pole		**Top:** N/A
		Bottom: N/A

Electrical Requirements

Volts:	N/A	**Watts:**	N/A
Hz:	N/A	**Amps:**	N/A
Phase:	N/A	**BTU/hr:**	N/A
KVA:	N/A	**Ded. Circuit:**	No
Emer. Power:	No	**Plug Type:**	N/A

Utility and Technology Requirements

Water - Cold:	No	**Gasses:**	No
Water - Hot:	No	**Drain:**	No
Water - Treated:	No	**Steam:**	No
Vent:	No	**Vacuum - Dental:**	No
Tech Connect:	No	**Vacuum - Medical:**	No

Structural Requirements

Seismic:	No	**Pre-approval:**

Product and Project Item Notes

Specification:

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B165	Hot Lab	Project	Draft (New)	1	Per 020415 meeting notes clarifications - 7647-002 mounts on 3490-026
				Total:	**1**	

(201) 825-9500 / (800) 631-3826

Wipe Spot Pads

Ultra-absorbent Wipe Spot Pads from Capintec easily absorb any removable contamination for wipe testing. These wipe pads are backed by a card with space for indicating the wipe location, date and time, activity found, and the initials of the user. These soft, highly absorbent cotton pads may be used either wet or dry to discover contamination.

The Wipe Spot Pads are packed 500 to a box. Cases of 5000 are available for facilities that process large numbers of wipes. The adhesive backing allows the wipe to be folded back upon itself and inserted into a test tube for counting.

Wipes- 500.. 5420-0086

Well Auxiliary Shield for CAPRAC®-t

The Well Auxiliary Shield is made with 1.5" thickness for shielding and sits on its own supporting base. The shield fits snugly around the well chamber for a total of 2" and can be easily installed or removed, as needed.

Specifications
- 7 1/2" x 6 3/4" x 15 5/8"
- 90 lb.

Well Auxiliary Shield...........5420-2141

Epson Roll Printer

An Epson printer is provided as an option for the CAPRAC® Wipe Test/Well Counter. This sturdy, high-quality printer provides graphic output with wipe reports, showing the peak energy range of the nuclides on the wipe. The printer utilizes a black/red ribbon to report wipes that are higher than the trigger levels for contamination. Abnormal values are printed in red for easy/fast identification.

$C \epsilon$

Epson Roll Printer... 5430-0058

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

AECOM

Description: Injector, Contrast Media, PET Infusion

Manufacturer: Bayer HealthCare Radiology   (888-842-2937)

Vendor: Bayer HealthCare Radiology   (888-842-2937)

Model: Intego PET Infusion System

PET Infusion system. Automatically measures and delivers patient-specific FDG doses on demand. Administers FDG within +/-2% of the measured dose. Automatically generates and prints per-patient and daily QC reports.

Atta ID: 7833-001

Alt ID:

Mfr #: INT SYS 100 (3014924)

Vendor #: INT SYS 100 (3014924)

CAD ID: INJ0051

Item ID:

General Product Detail

Arch Sig: Yes		**Spatially Sig:** No	
Arch Code: 2 - Movable, Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Medical	**Green:** No	

Physical Requirements

Width: 24.00 in (610 mm)	**Left:** N/A	
Depth: 34.00 in (864 mm)	**Right:** N/A	
Height: 53.00 in (1346 mm)	**Front:** N/A	
Max Weight: 730 lbs (331.1 kg)	**Back:** N/A	
Mounting: Floor-Mobile	**Top:** N/A	
	Bottom: N/A	

Electrical Requirements

Volts: 120	**Watts:** 252	
Hz: 60	**Amps:** 2	
Phase: Single	**BTU/hr:** N/A	
KVA:	**Ded. Circuit:** No	
Emer. Power: No	**Plug Type:** Type B (NEMA 5-15)	

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B119	PET/CT Hot Wait	Existing (Reuse)	Draft (Existing)	1	Per Sarah H email 021115 - I have attached the cut sheet for the PET infusion system that will be purchased by the VA along with the new PET/CT. This infusion system will need to be included in the design to accommodate appropriate power needs. The machine will be stored and housed in the PET/CT Hot Wait. It will be rolled to the patient's side when they are injected. Let me know if you have any questions

Total: 1

Precise. Flexible. Safe. Efficient.

Advance clinically, drive productivity, and improve safety with the Intego™ PET Infusion System – your next step in PET imaging. Innovative technology, smart design, and simple operation will make you wonder why you ever infused FDG any other way. Imagine smarter, safer, and simpler PET*. The Intego PET Infusion System: a new standard of care in FDG infusion.

In tego **™**
PET Infusion   System

Automatically measures and delivers patient-specific FDG doses on demand

• Introduces safety features that reduce radiation exposure from dose preparation by more than 20%

• Consistently and accurately administers FDG within +/-2% of the measured dose – providing precise, repeatable control of the FDG dose delivered.

System	Catalog #	Part #
MEDRAD Intego PET Infusion System	INT SYS 100	3014924
Source Administration Set (SAS)	INT CSS	3020146
Patient Administration Set (PAS)	INT CPS	3014882
Replacement Printer Label Roll	N/A	3017517

Technical Specifications

Weight:	Approximately 730 lbs (331 kg)
Dimensions:	Approximately 24 inches (60 cm) wide, 34 inches (86 cm) deep, 53 Inches (136 cm) high
Electrical:	100-240Vac, 50/60 Hz, 252 VA.
Maximum radioactivity:	750 mCi (27.7 GBq) for shielding effectiveness 700 mCi (25.9 GBq) for dose preparation
Maximum FDG volume:	30 mL
Maximum FDG activity concentration:	40 mCi/mL (1.48 GBq/mL)
Dose range:	1 - 25 mCi (37 - 925 MBq)
FDG dose accuracy:	+/- 2% of the measured dose, excluding the ionization chamber calibration
Flow rate:	1 mL/sec
System radiation profile:	< 2 mrem/hr (0.02 mSv/hr) at 12 inches (30.5 cm) from the surface of the cart at maximum activity

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

AECOM

Atta ID: 7843-001

Description: Workstation, Office, Modular w/ Overhead Bins

Alt ID:

Manufacturer: Herman Miller Healthcare ((616) 654-7489)

Mfr #: E0084

Vendor: Herman Miller Healthcare ((616) 654-7489)

Vendor #: E0084

Model: Action Office Administrative Area (E0084)

CAD ID: WKN0033

Modular office workstation. 72"W x 72"D with corner desk. Typical configuration features lockable flipper doors, mounted tools, and other customizable/ interchangeable components. 12 year parts and labor warranty.

Item ID:

General Product Detail

Arch Sig:	Yes	**Spatially Sig:**	No
Arch Code:	5 - Furniture	**ADA:**	No
Custom Code:	Unassigned	**Antimicrobial:**	No
Furnish Install:	O/V **Type:** Medical	**Green:**	No

Physical Requirements

Width:	72.00 in (1829 mm)	**Left:**	N/A
Depth:	72.00 in (1829 mm)	**Right:**	N/A
Height:	*	**Front:**	N/A
Max Weight:	*	**Back:**	N/A
Mounting:	Floor	**Top:**	N/A
		Bottom:	N/A

Electrical Requirements

Volts:	120	**Watts:**	*
Hz:	60	**Amps:**	*
Phase:	Single	**BTU/hr:**	N/A
KVA:		**Ded. Circuit:**	No
Emer. Power:	No	**Plug Type:**	Hardwire

Utility and Technology Requirements

Water - Cold:	No	**Gasses:**	No
Water - Hot:	No	**Drain:**	No
Water - Treated:	No	**Steam:**	No
Vent:	No	**Vacuum - Dental:**	No
Tech Connect:	No	**Vacuum - Medical:**	No

Structural Requirements

Seismic:	Yes	**Pre-approval:**	

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	G197	Admin	Project	Draft (New)	1	Per notes - modular desk w/ ovhd binsPer Sarah H email 040115 - There should only be 1 office chair [5383-052]; 1 waste can; 1 workstation [7843-001]
Nuclear Medicine	G197B	Admin Office	Project	Draft (New)	1	Per notes - 1 modular desk w/ ovhd bins
Nuclear Medicine	B164	Nurse	Project	Draft (New)	1	Per notes, modular desk w/ drawers, 3 file cab @printer, overhead shelving/ cornered lateral ovhd
Nuclear Medicine	G197A	Office	Project	Draft (New)	1	Per notes - (1) modular desk w/ ovhd (new)
				Total:	**4**	

E0084

WORKSTN,CORNER COUNTER,FREE STD,72x72
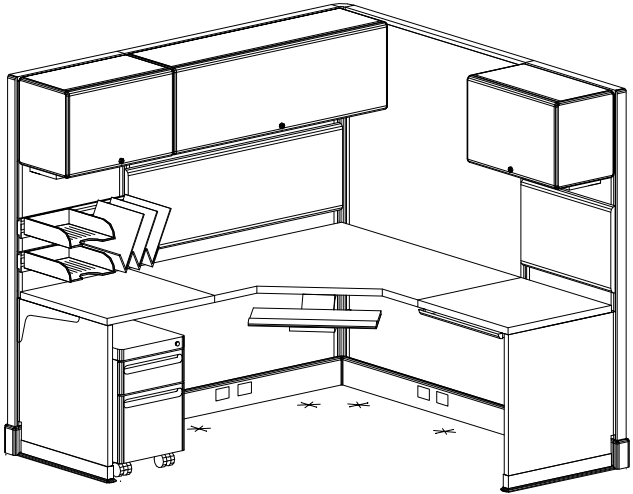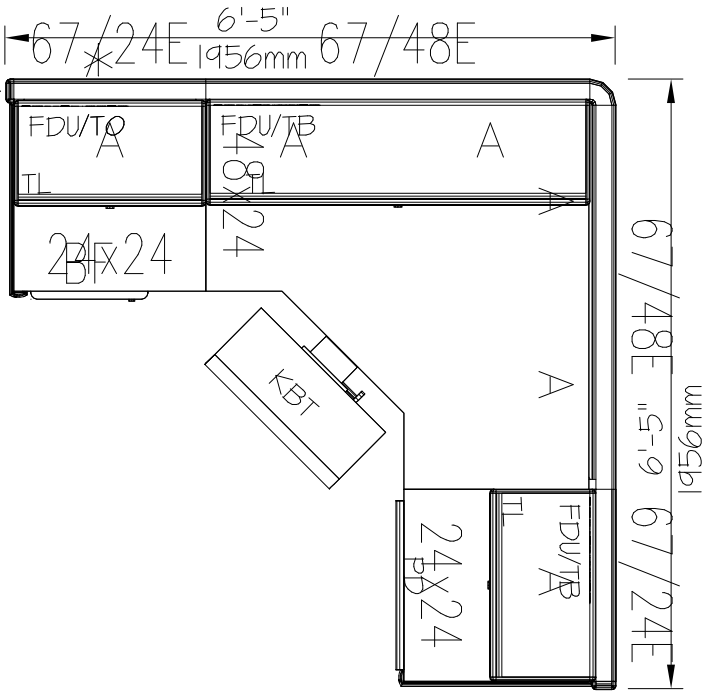
QTY	DESCRIPTION
4	Standard Solid Panel
2	Panel-to-Panel Connector
1	Panel Connector, 2-Way Corner
2	Finished End Hardware
3	Lockable Flipper Unit
3	Light
2	Tackboard
2	Tool Rail
2	Paper Tray
1	Diagonal Tray
2	Cantilevered Work Surface
1	Cantilevered Corner Work Surface
1	Mobile Pedestal, Box/File
1	Freestanding Work Surface
1	Pencil Drawer
2	Support Panel

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Description: Desk, Office, L-Shaped

Manufacturer: National Business Furniture   ((414) 615-3536)

Vendor: National Business Furniture   ((414) 615-3536)

Model: NBF Signature Statesman Cmpt L-Desk w/Right Return

L-Shaped Desk with right return. 65"W x 72"D x 30"H. Built with choice hardwoods finished in rich cherry veneers. Includes two box drawers and a file drawer. The return has grommet for wire management and a pull-out shelf behind the hinged door. Finished back. Greenguard Certified. Lifetime Guarantee.

Atta ID: 8230-002
Alt ID:
Mfr #: 13168
Vendor #: 13168
CAD ID: DSK0161
Item ID:

General Product Detail

Arch Sig: No		**Spatially Sig:** Yes	
Arch Code: 5 - Furniture		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Non-Medical	**Green:** Yes	

Physical Requirements

Width: 65.00 in (1651 mm)	**Left:** N/A	
Depth: 72.00 in (1829 mm)	**Right:** N/A	
Height: 30.00 in (762 mm)	**Front:** N/A	
Max Weight: 398 lbs (180.5 kg)	**Back:** N/A	
Mounting: Floor	**Top:** N/A	
	Bottom: N/A	

Electrical Requirements

Volts: N/A	**Watts:** N/A	
Hz: N/A	**Amps:** N/A	
Phase: N/A	**BTU/hr:** N/A	
KVA: N/A	**Ded. Circuit:** No	
Emer. Power: No	**Plug Type:** N/A	

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No	
Water - Hot: No	**Drain:** No	
Water - Treated: No	**Steam:** No	
Vent: No	**Vacuum - Dental:** No	
Tech Connect: No	**Vacuum - Medical:** No	

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	C169	NM Physician Office	Project	Draft (New)	1	Per notes - Desk - modular from time (like ??)"L" shape
				Total:	**1**	

Statesman Compact Executive
Item No: 13167

Dimensions: 65"W x 72"D x 30"H

Weight: 398 lbs.

Lifetime Guarantee

Product Description

Designed exclusively for NBF, Statesman Compact L-Desk with Right Return offers you expertly crafted quality in a fine contemporary design. Built with choice hardwoods finished in rich cherry veneers, the desk features elegant details that add just the right amount of class without saying too much.

The contemporary hardware in brushed nickel finish complements beautifully the desk's crown molding and picture frame detailing. Includes two box drawers and a file drawer. Full-extension drawers slide easily on ball bearing suspension. The return has grommet for wire management and a pull-out shelf behind the hinged door. With finished back. This desk's compact size enhances your placement options.

All items ship assembled, attach return to L-Desk.

This product has been Greenguard certified to support better indoor air quality for offices, homes, schools and healthcare facilities. Products that are Greenguard certified are regularly tested to ensure that their chemical and particle emissions meet acceptable pollutant standards.

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Description: Desk, Office w/o Drawers

Manufacturer: Haworth Furniture ((616) 393-3000)

Vendor: Haworth Furniture ((616) 393-3000)

Model: Conover (Miller) Greeter's Desk

Reception desk, 30H inches. Features solid maple frame, and wood/thermofoil top. Price based on Veneer top. Must select finish.

Atta ID: 8239-002
Alt ID:
Mfr #: 300GD
Vendor #: 300GD
CAD ID: DSK0209
Item ID:

General Product Detail

Arch Sig: No		**Spatially Sig:** Yes	
Arch Code: 5 - Furniture		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/C	**Type:** Non-Medical	**Green:** No	

Physical Requirements

Width: 48.00 in (1219 mm)	**Left:** N/A	
Depth: 21.00 in (533 mm)	**Right:** N/A	
Height: 30.00 in (762 mm)	**Front:** N/A	
Max Weight: 50 lbs (22.7 kg)	**Back:** N/A	
Mounting: Floor	**Top:** N/A	
	Bottom: N/A	

Electrical Requirements

Volts: N/A		**Watts:** N/A	
Hz: N/A		**Amps:** N/A	
Phase: N/A		**BTU/hr:** N/A	
KVA: N/A		**Ded. Circuit:** No	
Emer. Power: No		**Plug Type:** N/A	

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No	
Water - Hot: No	**Drain:** No	
Water - Treated: No	**Steam:** No	
Vent: No	**Vacuum - Dental:** No	
Tech Connect: No	**Vacuum - Medical:** No	

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	G194	Library	Existing (Reuse)	Draft (Existing)	1	123114 meeting notes - Provide table for computer and printer 010515 - request clarification on type of table 011915 addendum to 123114 meeting notes - similar to office desks, without drawers Per Sarah H email 040115 - 8239-002 was not labeled on the drawing (should be listed as existing)
				Total:	**1**	

Tandem

Conover™ (Miller) Collection - Wood Double Arch Arm

SPECIFICATIONS:

Frame:	Exterior frame constructed of solid kiln-dried hardwoods Interior frame composed of kiln-dried hardwoods and laminated hardwoods	**Options:**	Kydex or Thermofoil arm caps $30 per arm "No Center Arm" option available for tandem seating, order with suffix - NCA Double Arch Arm 30x Series Single Arch Arm 34x Series
Cushioning:	Multi-density, Cal 117 compliant urethane foam	**Notes:**	Seats are field-renewable.

302

301   **301HIP-C**   **301HIP-S**   **302LS-30**   **302LS**

Double Arch Arm Style#	Description	Yds	Wt	COM 1	COL 2	3	4	5	6	7	8	9	10	Leather L1	L2	OW	OD	OH	IW	ID	SH	AH	SIN
+ 301	Arm Chair	1.50	30	956	995	1029	1068	1101	1141	1175	1216	1249	1289	1164	1289	24	26.5	34	19.5	19.5	19	27	711-18
301S	Side Chair	1.50	20	904	938	978	1011	1051	1086	1125	1159	1198	1231	1108	1231	23	26.5	34		19.5	19		711-18
301HIP-C	Hip Chair	1.50	30	1086	1119	1159	1193	1231	1266	1305	1338	1374	1413	1289	1413	24	28	38	19.5	19.5	23	31	711-18
301HIP-S	Hip Stool	1.50	25	1187	1226	1260	1300	1333	1374	1407	1447	1481	1514	1396	1520	24	28	43	19.5	19.5	30	36	711-18
+ 302LS-30	Bariatric Arm Chair	2.50	40	1338	1396	1458	1520	1582	1644	1701	1764	1826	1887	1684	1887	33.5	26.5	34	29.5	19.5	19	27	711-16
+ 302LS	Bariatric Loveseat	2.50	65	1368	1429	1491	1549	1611	1673	1735	1797	1853	1916	1712	1922	45	26.5	34	44.5	19.5	19	27	711-16
+ 302	2 Seat Tandem	3.00	50	1735	1809	1881	1956	2029	2102	2176	2250	2322	2396	2148	2396	45.5	26.5	34	19.5	19.5	19	27	711-17
+ 303	3 Seat Tandem	4.50	70	2429	2543	2650	2764	2870	2978	3092	3198	3312	3430	3052	3425	67	26.5	34	19.5	19.5	19	27	711-17
304	4 Seat Tandem	6.00	90	3102	3250	3397	3543	3690	3838	3983	4142	4295	4453	3928	4425	88.5	26.5	34	19.5	19.5	19	27	711-17
305	5 Seat Tandem	7.50	115	3831	4012	4193	4380	4560	4747	4934	5131	5329	5527	4866	5487	110	26.5	34	19.5	19.5	19	27	711-17
300-OTT	Ottoman	0.75	15	524	541	557	578	595	612	628	645	666	682	622	682	18	18	11					NOC
+ 302BEN	Bench	1.50	25	1045	1078	1119	1153	1193	1226	1260	1300	1333	1374	1249	1374	48	21.5	18.5					711-16

302LS-30 & 302LS are weight rated to 750 pounds
301HIP-S is weight rated to 550 pounds

300GD   **300FSET**   **300FSLT-24**   **300FSCT**   **302BEN**

Tables	Description	Wt	Veneer Top Price	Laminate Top Upcharge	W	D	H	SIN
+ 300BT	Bridge Table	15	515	99	21	22	17	711-11
+ 300CRNT	Corner Table	40	1141	165	34	34	17	711-11
+ 300ET	Attached End Table	15	588	99	21	21	17	711-11
+ 300FSCT	Free Standing Coffee Table	40	1087	165	48	21	17	711-11
+ 300FSET	Free Standing End Table	20	660	99	22	21	17	711-11
+ 300FSLT-24	Free Standing Lamp Table	25	683	99	22	21	24	711-11
+ 300GD	Greeters Desk	50	1249	328	48	21	30	711-11

Ordering Information:
For Tandem Seating please order as if facing the furniture from left to right; also please specify the Finish (page 8) and Fabric (Fabric Supplement). For example, if you were ordering the layout illustrated, your order would be:

Qty	Style	Finish	Fabric
1	300FSET	#10 Honey	
1	303	#10 Honey	Autumn Dance
1	300CRNT	#10 Honey	
1	302-300ET	#10 Honey	Autumn Dance
1	302LS-300BT-302	#10 Honey	Autumn Dance
1	300FSCT	#10 Honey	

The dash (-) represents that the tables are attached and ensures that a mounting rail will be provided. Enter items and place dashes for assembly in the order they are to be assembled in the field.
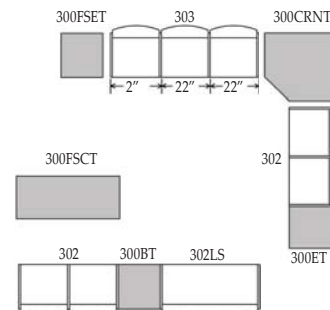
+ = **RUSH**   More info on the inside cover or on the web at www.legacyfurniture.us/rush. Rush applies to 30x series only.

12

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID: 8306-000

Description: Chair, Clinical, Allowance

Manufacturer: Unspecified

Vendor: Unspecified

Model: Unspecified

Alt ID:

Mfr #:

Vendor #:

CAD ID: CHA0000

Item ID:

General Product Detail

Arch Sig: No		**Spatially Sig:** No	
Arch Code: 3 - Movable, Non-Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Medical	**Green:** No	

Physical Requirements

Width: N/A	**Left:** N/A
Depth: N/A	**Right:** N/A
Height: N/A	**Front:** N/A
Max Weight: N/A	**Back:** N/A
Mounting: N/A	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: N	**Pre-approval:**

Product and Project Item Notes

Specification:

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	A156A	Thyroid Uptake	Project	Draft (New)	1	
				Total:	**1**	

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID: 8329-001

Description: Curtain, Allowance

Alt ID:

Manufacturer: TBD   (888-555-1212)

Mfr #: TBD

Vendor: TBD   (888-555-1212)

Vendor #: TBD

Model: TBD

CAD ID: CUR0011

Item ID:

General Product Detail

Arch Sig: No	**Spatially Sig:** No	
Arch Code: 5 - Furniture	**ADA:** No	
Custom Code: Unassigned	**Antimicrobial:** No	
Furnish Install: C/C **Type:** Non-Medical	**Green:** No	

Physical Requirements

Width: N/A	**Left:** N/A
Depth: N/A	**Right:** N/A
Height: N/A	**Front:** N/A
Max Weight: N/A	**Back:** N/A
Mounting: N/A	**Top:** N/A
	Bottom: N/A

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B118C	Corridor	Project	Draft (New)	1	
Nuclear Medicine	B132	Gurney Wait	Project	Draft (New)	1	per Sarah H email clarification 030415 - All the rooms you have listed require curtains. (Wheelchair Waiting X109, Pat Dose Room X104, Treadmill A156B, Gurney Wait X120). The tracks should be included in the drawings as a contractor purchased item
Nuclear Medicine	B121	Pat Dose Room	Project	Draft (New)	2	Per note - There is a curtain that separates the room per Sarah H email clarification 030415 - All the rooms you have listed require curtains. (Wheelchair Waiting X109, Pat Dose Room X104, Treadmill A156B, Gurney Wait X120). The tracks should be included in the drawings as a contractor purchased item Per Sarah H email 040115 - 2 curtains [8329-001]
Nuclear Medicine	A156B	Treadmill	Project	Draft (New)	1	per Sarah H email clarification 030415 - All the rooms you have listed require curtains.

						(Wheelchair Waiting X109, Pat Dose Room X104, Treadmill A156B, Gurney Wait X120). The tracks should be included in the drawings as a contractor purchased item
Nuclear Medicine	B128	Wheel Chair Waiting Room	Project	Draft (New)	1	Per note - add curtain to WC x 109per Sarah H email clarification 030415 - All the rooms you have listed require curtains. (Wheelchair Waiting X109, Pat Dose Room X104, Treadmill A156B, Gurney Wait X120). The tracks should be included in the drawings as a contractor purchased item

Total: **6**

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID: C-269862
Alt ID:

Description: Oven, Domestic, Microwave, Countertop

Manufacturer: Emerson Radio Corp   (800-909-1240)   **Mfr #:**

Vendor: Emerson Radio Corp   (800-909-1240)   **Vendor #:**

Model: MW9338SB   **CAD ID:** C-269862

Item ID:

General Product Detail

Arch Sig: Yes		**Spatially Sig:** No	
Arch Code: 2 - Movable, Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/C	**Type:** Non-Medical	**Green:** No	

Physical Requirements

Width:	**Left:**
Depth:	**Right:**
Height:	**Front:**
Max Weight:	**Back:**
Mounting:	**Top:**
	Bottom:

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	C168	Tech Office	Existing (Reuse)	Draft (Existing)	1	Add per email from Sarah H
				Total:	**1**	

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Description: Oven, Domestic, Microwave, Countertop

Manufacturer: Panasonic   ((201) 348-7000)

Vendor: Panasonic   ((201) 348-7000)

Model: EM-S5288W/B

Atta ID: C-269865
Alt ID:
Mfr #:
Vendor #:
CAD ID: C-269865
Item ID:

General Product Detail

Arch Sig: Yes		**Spatially Sig:** No	
Arch Code: 2 - Movable, Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Non-Medical	**Green:** No	

Physical Requirements

Width:	**Left:**
Depth:	**Right:**
Height:	**Front:**
Max Weight:	**Back:**
Mounting:	**Top:**
	Bottom:

Electrical Requirements

Volts: N/A		**Watts:** N/A	
Hz: N/A		**Amps:** N/A	
Phase: N/A		**BTU/hr:** N/A	
KVA: N/A		**Ded. Circuit:** No	
Emer. Power: No		**Plug Type:** N/A	

Utility and Technology Requirements

Water - Cold: No		**Gasses:** No	
Water - Hot: No		**Drain:** No	
Water - Treated: No		**Steam:** No	
Vent: No		**Vacuum - Dental:** No	
Tech Connect: No		**Vacuum - Medical:** No	

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:
Structural:
Electrical:
Plumbing:
Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B165	Hot Lab	Existing (Reuse)	Draft (Existing)	1	Per 123114 meeting notes - ...existing microwave (Sanyo EM-S5288W/B) Please note Sanyo was purchased by Panasonic and now shows under name of Panasonic.
					Total: 1	

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

Atta ID:	C-269866
Alt ID:	
Mfr #:	
Vendor #:	
CAD ID:	C-269866
Item ID:	

Description: Chair, Office, Task, w/Arms, Bariatric

Manufacturer: Unicor - Office Furniture Group

Vendor: Unicor - Office Furniture Group

Model: 24/7 High Back

General Product Detail

Arch Sig: No		**Spatially Sig:** No	
Arch Code: 5 - Furniture		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/O	**Type:** Non-Medical	**Green:** No	

Physical Requirements

Width:	**Left:**
Depth:	**Right:**
Height:	**Front:**
Max Weight:	**Back:**
Mounting:	**Top:**
	Bottom:

Electrical Requirements

Volts:	**Watts:**
Hz:	**Amps:**
Phase: N/A	**BTU/hr:** N/A
KVA:	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	A156A	Thyroid Uptake	Project	Draft (New)	1	011915 - 123114 meeting notes revision - 65.AS706 1.c. Add a Bariatric office chair. 012015 - additional information requested from user. 012215 - info rec'd via email from Sarah H - We purchase furniture from Unicorp. Standard bariatric chairs are roughly 31"w x 18"d with a weight capacity of 500-700lb
Nuclear Medicine	A156B	Treadmill	Project	Draft (New)	1	Per 123114 mtg notes - Add office chair 5383-052... 011915 - 123114 meeting notes revision - 65.AS706 1.c. Add a Bariatric office chair. 012015 - additional information requested from user. 012215 - info rec'd via email from Sarah H - We purchase furniture from Unicorp. Standard bariatric chairs are roughly 31"w x 18"d with a weight capacity of 500-700lb

Total: 2

AECOM

VA Columbia MO - Nuclear Medicine
Specification Coversheet

AECOM

Description: Computer Workstation, Allowance

Manufacturer: Siemens Medical Imaging   (888-826-9702)

Vendor: Siemens Medical Imaging   (888-826-9702)

Model: Symbia T - Control Console

Atta ID: C-284487

Alt ID:

Mfr #: TBD

Vendor #: TBD

CAD ID: C-284487

Item ID:

General Product Detail

Arch Sig: No		**Spatially Sig:** No	
Arch Code: 2 - Movable, Elect		**ADA:** No	
Custom Code: Unassigned		**Antimicrobial:** No	
Furnish Install: O/C	**Type:** Medical	**Green:** No	

Physical Requirements

Width:	**Left:**
Depth:	**Right:**
Height:	**Front:**
Max Weight:	**Back:**
Mounting:	**Top:**
	Bottom:

Electrical Requirements

Volts: N/A	**Watts:** N/A
Hz: N/A	**Amps:** N/A
Phase: N/A	**BTU/hr:** N/A
KVA: N/A	**Ded. Circuit:** No
Emer. Power: No	**Plug Type:** N/A

Utility and Technology Requirements

Water - Cold: No	**Gasses:** No
Water - Hot: No	**Drain:** No
Water - Treated: No	**Steam:** No
Vent: No	**Vacuum - Dental:** No
Tech Connect: No	**Vacuum - Medical:** No

Structural Requirements

Seismic: No	**Pre-approval:**

Product and Project Item Notes

Specification:

Structural:

Electrical:

Plumbing:

Mechanical:

Location

Department	Room#	Room	Funding Source	Item Status	Qty	Item Notes
Nuclear Medicine	B122	SPECT/CT Control	Existing (Reuse)	Draft (Existing)	6	2 Philips, 2 Siemens, 1 Hospital Computer, 1 Processing Computer, 1 Acquisition computer Vendor to relocate
				Total:	**6**	